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*Plenary sitting*

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**A8-0405/2018**

27.11.2018

**\*\*\*I**

## **REPORT**

on the proposal for a regulation of the European Parliament and of the Council establishing the space programme of the Union and the European Union Agency for the Space Programme and repealing Regulations (EU) No 912/2010, (EU) No 1285/2013, (EU) No 377/2014 and Decision 541/2014/EU (COM(2018)0447 – C8-0258/2018 – 2018/0236(COD))

Committee on Industry, Research and Energy

Rapporteur: Massimiliano Salini

### ***Symbols for procedures***

*	Consultation procedure
***	Consent procedure
***I	Ordinary legislative procedure (first reading)
***II	Ordinary legislative procedure (second reading)
***III	Ordinary legislative procedure (third reading)

(The type of procedure depends on the legal basis proposed by the draft act.)

### ***Amendments to a draft act***

#### **Amendments by Parliament set out in two columns**

Deletions are indicated in ***bold italics*** in the left-hand column. Replacements are indicated in ***bold italics*** in both columns. New text is indicated in ***bold italics*** in the right-hand column.

The first and second lines of the header of each amendment identify the relevant part of the draft act under consideration. If an amendment pertains to an existing act that the draft act is seeking to amend, the amendment heading includes a third line identifying the existing act and a fourth line identifying the provision in that act that Parliament wishes to amend.

#### **Amendments by Parliament in the form of a consolidated text**

New text is highlighted in ***bold italics***. Deletions are indicated using either the ■ symbol or strikeout. Replacements are indicated by highlighting the new text in ***bold italics*** and by deleting or striking out the text that has been replaced.

By way of exception, purely technical changes made by the drafting departments in preparing the final text are not highlighted.

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## DRAFT EUROPEAN PARLIAMENT LEGISLATIVE RESOLUTION

**on the proposal for a regulation of the European Parliament and of the Council establishing the space programme of the Union and the European Union Agency for the Space Programme and repealing Regulations (EU) No 912/2010, (EU) No 1285/2013, (EU) No 377/2014 and Decision 541/2014/EU (COM(2018)0447 – C8-0258/2018 – 2018/0236(COD))**

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

*The European Parliament,*

- having regard to the Commission proposal to Parliament and the Council (COM(2018)0447),
  - having regard to Article 294(2) and Article 189(2) of the Treaty on the Functioning of the European Union, pursuant to which the Commission submitted the proposal to Parliament (C8-0258/2018),
  - having regard to Article 294(3) of the Treaty on the Functioning of the European Union,
  - having regard to Rule 59 of its Rules of Procedure,
  - having regard to the report of the Committee on Industry, Research and Energy and the opinions of the Committee on Budgets, the Committee on the Environment, Public Health and Food Safety, the Committee on Transport and Tourism and the Committee on Agriculture and Rural Development (A8-0405/2018),
1. Adopts its position at first reading hereinafter set out;
  2. Calls on the Commission to refer the matter to Parliament again if it replaces, substantially amends or intends to substantially amend its proposal;
  3. Instructs its President to forward its position to the Council, the Commission and the national parliaments.

### **Amendment 1**

#### **Draft legislative resolution**

#### **Citation 5 a (new)**

*Draft legislative resolution*

*Amendment*

- ***having regard to the Commission communication of 14 September 2016 entitled ‘Connectivity for a Competitive Digital Single Market – Towards a European Gigabit Society’***

*(COM(2016)0587) and the accompanying  
Commission staff working document  
(SWD(2016)0300),*

## **Amendment 2**

**Draft legislative resolution**  
**Citation 5 b (new)**

*Draft legislative resolution*

*Amendment*

– *having regard to the Commission  
communication of 14 September 2016  
entitled ‘5G for Europe: An Action Plan’  
(COM(2016)0588) and the accompanying  
Commission staff working document  
(SWD(2016)0306),*

## **Amendment 3**

**Proposal for a regulation**  
**Recital 1**

*Text proposed by the Commission*

*Amendment*

(1) Space technology, data and services have become indispensable in the daily lives of Europeans and play an essential role in preserving many strategic interests. The Union’s space industry is already one of the most competitive in the world. However, the emergence of new players and the development of new technologies are revolutionising traditional industrial models. It is therefore crucial that the Union remains a leading international player with extensive freedom of action in the space domain, that it encourages scientific and technical progress and support the competitiveness and innovation capacity of space sector industries within the Union, in particular small and medium-sized enterprises, start-ups and innovative businesses.

(1) Space technology, data and services have become indispensable in the daily lives of Europeans and play an essential role in preserving many strategic interests. The Union’s space industry is already one of the most competitive in the world. However, the emergence of new players and the development of new technologies are revolutionising traditional industrial models. It is therefore crucial that the Union remains a leading international player with extensive freedom of action in the space domain, that it encourages scientific and technical progress and support the competitiveness and innovation capacity of space sector industries within the Union, in particular small and medium-sized enterprises, start-ups and innovative businesses. *At the same time, it is important to create the appropriate conditions to ensure a global level playing field for companies active in the space*

*sector.*

#### Amendment 4

##### Proposal for a regulation Recital 2

*Text proposed by the Commission*

(2) The space sector's development has historically been linked to security. In many cases, the equipment, components and instruments used in the space sector are dual-use goods. The possibilities that space offers for the security of the Union and its Member States should therefore be exploited.

*Amendment*

(2) The space sector's development has historically been linked to security. In many cases, the equipment, components and instruments used in the space sector are dual-use goods. The possibilities that space ***and autonomous access to space*** offers for the security ***and independence*** of the Union and its Member States should therefore be exploited.

#### Amendment 5

##### Proposal for a regulation Recital 3

*Text proposed by the Commission*

(3) The Union has been developing its own space initiatives and programmes since the end of the 1990s, namely the European Geostationary Navigation Overlay Service (EGNOS) and then Galileo and Copernicus, which respond to the needs of Union citizens and the requirements of public policies. ***Not only should*** the continuity of those initiatives be ensured ***but they*** must also be improved, so that they remain at the forefront in view of new technology development and the transformations in the digital and information and communications technology domains, meet the new needs of users and are able to meet political priorities ***such as climate change, including monitoring changes in the Arctic, security and defence.***

*Amendment*

(3) The Union has been developing its own space initiatives and programmes since the end of the 1990s, namely the European Geostationary Navigation Overlay Service (EGNOS) and then Galileo and Copernicus, which respond to the needs of Union citizens and the requirements of public policies. The continuity of those initiatives, ***as well as their uptake and use, should*** be ensured ***and*** must also be improved, so that they remain at the forefront in view of new technology development and the transformations in the digital and information and communications technology domains, meet the new needs of users and are able to meet political priorities. ***The Programme should promote space-based services also so that all Member States and their citizens can***

*fully reap the benefits of the Programme.*

## Amendment 6

### Proposal for a regulation Recital 4

#### *Text proposed by the Commission*

(4) The Union needs to ensure its freedom of action and autonomy to have access to space and be able to use it safely. It is therefore essential that it maintains autonomous, reliable and cost-effective access to space, especially as regards critical infrastructure and technology, public security and the security of the Union and its Member States. The Commission should therefore have the possibility to aggregate launch services at European level, both for its own needs and, at their request, for those of other entities, including Member States, in conformity with the provisions of Article 189(2) of the Treaty. It is also crucial that the Union continues to have modern, efficient and flexible launch infrastructure facilities. In addition to measures taken by Member States and the European Space Agency, the Commission should consider ways to support such facilities. In particular, where space ground infrastructure necessary to perform launches in line with the needs of the Programme is to be maintained or upgraded, it should be possible to partially fund such adaptations under the Programme, in line with the Financial Regulation and where a clear EU value added can be established, with the view of achieving a better cost efficiency for the Programme.

#### *Amendment*

(4) The Union needs to ensure its freedom of action and autonomy to have access to space and be able to use it safely. It is therefore essential that it maintains autonomous, reliable and cost-effective access to space, ***including alternative launching technologies and innovative systems or services***, especially as regards critical infrastructure and technology, public security and the security of the Union and its Member States. The Commission should therefore have the possibility to aggregate launch services at European level, both for its own needs and, at their request, for those of other entities, including Member States, in conformity with the provisions of Article 189(2) of the Treaty. It is also crucial that the Union continues to have modern, efficient and flexible launch infrastructure facilities. In addition to measures taken by Member States and the European Space Agency, the Commission should consider ways to support such facilities. In particular, where space ground infrastructure necessary to perform launches in line with the needs of the Programme is to be maintained or upgraded, it should be possible to partially fund such adaptations under the Programme, in line with the Financial Regulation and where a clear EU value added can be established, with the view of achieving a better cost efficiency for the Programme.

## Amendment 7



**Proposal for a regulation**  
**Recital 5**

*Text proposed by the Commission*

(5) To strengthen the competitiveness of the Union space industry and gain capacities in designing, building and operating its own systems, the Union should support the creation, growth, and development of the entire space industry. The emergence of a business- and innovation-friendly model should be supported at European, regional and national levels by **establishing** space hubs that bring together the space, digital and user sectors. The Union should foster the expansion of Union-based space companies to help them succeed, including by supporting them in accessing risk finance in view of the lack, within the Union, of appropriate access to private equity for space start-ups and by creating innovation partnerships (first contract approach).

*Amendment*

(5) To strengthen the competitiveness of the Union space industry and gain capacities in designing, building and operating its own systems, the Union should support the creation, growth, and development of the entire space industry. The emergence of a business- and innovation-friendly model should be supported at European, regional and national levels by **initiatives such as** space hubs that bring together the space, digital and user sectors. **Space hubs should work in cooperation with the digital innovation hubs to foster entrepreneurship and skills.** The Union should foster the **creation and** expansion of Union-based space companies to help them succeed, including by supporting them in accessing risk finance in view of the lack, within the Union, of appropriate access to private equity for space start-ups and by creating innovation partnerships (first contract approach).

**Amendment 8**

**Proposal for a regulation**  
**Recital 6**

*Text proposed by the Commission*

(6) Owing to its coverage and its potential to help resolve global challenges, the space programme of the Union ('Programme') has a strong international dimension. The Commission should therefore be enabled to manage, on behalf of the Union, and coordinate activities on the international scene on behalf of the Union, in particular to defend the interests of the Union and its Member States in international fora, including in the area of frequencies, to promote the Union's

*Amendment*

(6) Owing to its coverage and its potential to help resolve global challenges, the space programme of the Union ('Programme') has a strong international dimension. The Commission should therefore be enabled to manage, on behalf of the Union, and coordinate activities on the international scene on behalf of the Union, in particular to defend the interests of the Union and its Member States in international fora, including in the area of frequencies. **The Commission should**

technology and industry, and to encourage cooperation in the field of training, bearing in mind the need to ensure the reciprocity of the rights and obligations of the parties. It is particularly important that the Union be represented by the Commission in the bodies of the International Cospas-Sarsat Programme or in relevant sectoral UN bodies including the Food and Agriculture Organisation, as well as the World Meteorological Organisation.

***strengthen economic diplomacy*** to promote the Union's technology and industry, and to encourage cooperation in the field of training, bearing in mind the need to ensure the reciprocity of the rights and obligations of the parties ***and fair competition at international level***. It is particularly important that the Union be represented by the Commission in the bodies of the International Cospas-Sarsat Programme or in relevant sectoral UN bodies including the Food and Agriculture Organisation, as well as the World Meteorological Organisation.

## Amendment 9

### Proposal for a regulation Recital 7

#### *Text proposed by the Commission*

(7) The Commission should promote, alongside the Member States and the High Representative, responsible behaviour in space and outer space and explore the possibility for accession to the relevant UN Conventions.

#### *Amendment*

(7) The Commission should promote, alongside the Member States and the High Representative, responsible behaviour in space and outer space, ***in particular in finding solutions against the space debris proliferation*** and explore the possibility for accession to the relevant UN Conventions, ***including the Treaty on Principles Governing the Activities of States in the Exploration and Use of Outer Space, including the Moon and Other Celestial Bodies (the Outer Space Treaty)***.

## Amendment 10

### Proposal for a regulation Recital 8

#### *Text proposed by the Commission*

(8) The Programme shares similar objectives with other Union programmes, notably Horizon Europe, InvestEU Fund, European Defence Fund and Funds under

#### *Amendment*

(8) The Programme shares similar objectives with other Union programmes, notably Horizon Europe, InvestEU Fund, European Defence Fund and Funds under

Regulation (EU) [Common Provisions Regulation]. Therefore, cumulative funding from those programmes should be foreseen, provided they do cover the same **cost items**, in particular through arrangements for complementary funding from Union programmes where management modalities permit - either in sequence, in an alternating way, or through the combination of funds including for the joint funding of actions, allowing, where possible, innovation partnerships and blending operations. During the implementation of the Programme, the Commission should therefore promote synergies with other related Union programmes which would allow, where possible, use of access to risk finance, innovation partnerships, cumulative or blended funding.

Regulation (EU) [Common Provisions Regulation]. Therefore, cumulative funding from those programmes should be foreseen, provided they do cover the same **costs**, in particular through arrangements for complementary funding from Union programmes where management modalities permit - either in sequence, in an alternating way, or through the combination of funds including for the joint funding of actions, allowing, where possible, innovation partnerships and blending operations. During the implementation of the Programme, the Commission should therefore promote synergies with other related Union programmes which would allow, where possible, use of access to risk finance, innovation partnerships, cumulative or blended funding. ***It is important to ensure continuity between the solutions developed through Horizon Europe and other Union programmes and the components of the Programme.***

## **Amendment 11**

### **Proposal for a regulation Recital 10 a (new)**

*Text proposed by the Commission*

*Amendment*

***(10 a) Around 200 000 professionals are employed in the Union space sector. Therefore, it is essential to continue developing the state-of-the-art infrastructure of that sector and thereby stimulate upstream and downstream economic activities. In addition, to ensure the competitiveness of the European space industry in the future, the Programme should support the development of advanced skills in space-related fields and support education and training activities, with a special focus on girls and women, in order to realise the full potential of Union citizens in that area.***

## Amendment 12

### Proposal for a regulation

#### Recital 13 a (new)

*Text proposed by the Commission*

*Amendment*

***(13a) The Programme should exploit the synergies between the space and transport sectors, taking into consideration that space technologies play a strategic role in making land, maritime, air and space transport smarter, more efficient, safer, more secure, sustainable and integrated and at the same time a growing, innovative transport sector will increase the request of innovative and up-to-date space technologies.***

## Amendment 13

### Proposal for a regulation

#### Recital 14

*Text proposed by the Commission*

*Amendment*

(14) ***Any*** revenue generated by the Programme should accrue to the Union in order to partially offset the investments that it has already made, and that revenue should be used to support the objectives of the Programme. For the same reason, it should be possible to provide for a revenue-sharing mechanism in contracts concluded with private sector entities.

(14) Revenue generated by ***the components of*** the Programme should accrue to the Union in order to partially offset the investments that it has already made, and that revenue should be used to support ***the achievement of*** the objectives of the Programme. For the same reason, it should be possible to provide for a revenue-sharing mechanism in contracts concluded with private sector entities.

## Amendment 14

### Proposal for a regulation

#### Recital 16

*Text proposed by the Commission*

*Amendment*

(16) The Programme relies on complex and constantly changing technologies. The

(16) The Programme relies on complex and constantly changing technologies. The

reliance on such technologies results in uncertainty and risk for public contracts concluded under this programme, insofar as those contracts involve long-term commitments to equipment or services. Specific measures concerning public contracts are therefore required in addition to the rules laid down in the Financial Regulation. It should thus be possible to award a contract in the form of a conditional stage-payment contract, introduce an amendment, under certain conditions, in the context of its performance, or impose a minimum level of subcontracting. Lastly, given the technological uncertainties that characterise the components of the Programme, contract prices cannot always be forecast accurately and it should therefore be possible to conclude contracts without stipulating a firm fixed price and to include clauses to safeguard the financial interests of the Union.

reliance on such technologies results in uncertainty and risk for public contracts concluded under this programme, insofar as those contracts involve long-term commitments to equipment or services. Specific measures concerning public contracts are therefore required in addition to the rules laid down in the Financial Regulation. It should thus be possible to award a contract in the form of a conditional stage-payment contract, introduce an amendment, under certain conditions, in the context of its performance, or impose a minimum level of subcontracting, *in particular to small and medium-sized enterprises and start-ups*. Lastly, given the technological uncertainties that characterise the components of the Programme, contract prices cannot always be forecast accurately and it should therefore be possible to conclude contracts without stipulating a firm fixed price and to include clauses to safeguard the financial interests of the Union.

## Amendment 15

### Proposal for a regulation Recital 25

#### *Text proposed by the Commission*

(25) Sound public governance of the Programme requires the strict distribution of responsibilities and tasks among the different entities involved to avoid duplication and reduce cost overruns and delays.

#### *Amendment*

(25) Sound public governance of the Programme requires the strict distribution of responsibilities and tasks among the different entities involved to avoid duplication and reduce cost overruns and delays, *and should aim to prioritise the use of existing European infrastructure and developing the European professional and industrial sectors*.

## Amendment 16

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

*Text proposed by the Commission*

*Amendment*

***(25a) The Space Programmes are user-driven and therefore require the continuous, effective involvement of users' representatives for their implementation and development.***

**Amendment 17**

**Proposal for a regulation**  
**Recital 26**

*Text proposed by the Commission*

*Amendment*

(26) Member States have long been active in the field of space. They have systems, infrastructure, national agencies and bodies linked to space. They can therefore make a big contribution to the Programme, especially its implementation, and should be required to cooperate fully with the Union to promote the Programme's services and applications. The Commission should be able to mobilise the means at Member States' disposal, might entrust the Member States with non-regulatory tasks in the execution of the Programme and benefit from their assistance. Moreover, the Member States concerned should take all necessary measures to ensure the protection of the ground stations established on their territories. In addition, Member States and the Commission should work together and with appropriate international bodies and regulatory authorities to ensure that the frequencies necessary for the Programme are available and ***protected*** to allow for the full development and implementation of applications based on the services offered, in compliance with Decision No 243/2012/EU of the European Parliament and of the Council of 14 March 2012 establishing a multiannual radio spectrum

(26) Member States have long been active in the field of space. They have systems, infrastructure, national agencies and bodies linked to space. They can therefore make a big contribution to the Programme, especially to its implementation, and should be required to cooperate fully with the Union to promote the Programme's services and applications. The Commission should be able to mobilise the means at Member States' disposal, might entrust the Member States with non-regulatory tasks in the execution of the Programme and benefit from their assistance. Moreover, the Member States concerned should take all necessary measures to ensure the protection of the ground stations established on their territories. In addition, Member States and the Commission should work together and with appropriate international bodies and regulatory authorities to ensure that the frequencies necessary for the Programme are available and ***have adequate protection*** to allow for the full development and implementation of applications based on the services offered, in compliance with Decision No 243/2012/EU of the European Parliament and of the Council of 14 March 2012 establishing a multiannual radio

policy programme<sup>15</sup> .

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<sup>15</sup> Decision No 243/2012/EU of the European Parliament and of the Council of 14 March 2012 establishing a multiannual radio spectrum policy programme (OJ L 81, 21.3.2012, p. 7).

spectrum policy programme<sup>15</sup> .

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<sup>15</sup> Decision No 243/2012/EU of the European Parliament and of the Council of 14 March 2012 establishing a multiannual radio spectrum policy programme (OJ L 81, 21.3.2012, p. 7).

## Amendment 18

### Proposal for a regulation

#### Recital 27

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

(27) As promoter of the Union's general interest, it falls to the Commission to **implement** the Programme, assume overall responsibility and promote their use. In order to optimise the resources and competences of the various stakeholders, the Commission should be able to delegate certain tasks. Moreover the Commission is the best placed to determine the main **technical and operational specifications** necessary to implement systems and services evolution.

##### *Amendment*

(27) As promoter of the Union's general interest, it falls to the Commission to **supervise the implementation of** the Programme, assume overall responsibility and promote their use. In order to optimise the resources and competences of the various stakeholders, the Commission should be able to delegate certain tasks. Moreover the Commission is the best placed to determine the main **requirements** necessary to implement systems and services evolution.

## Amendment 19

### Proposal for a regulation

#### Recital 28

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

(28) The mission of the European Union Agency for the Space Programme ("the Agency"), which replaces and succeeds the European GNSS Agency established by Regulation (EU) No 912/2010, is to contribute to the Programme, particularly as regards security. **Certain tasks linked to the security** and promotion of the **Programme** should therefore be assigned to the Agency. In relation to security in particular, and given its experience in this

##### *Amendment*

(28) The mission of the European Union Agency for the Space Programme ("the Agency"), which replaces and succeeds the European GNSS Agency established by Regulation (EU) No 912/2010, is to contribute to the Programme, particularly as regards security, **cybersecurity** and promotion of the **services and the downstream sector. Tasks linked to those areas** should therefore be assigned to the Agency. In relation to security in

area, the Agency should be responsible for the security accreditation tasks for all the Union actions in the space sector. Furthermore, it should perform the tasks which the Commission confers on it by means of one or more contribution agreements covering various other specific tasks associated with the programme.

particular, and given its experience in this area, the Agency should be responsible for the security accreditation tasks for all the Union actions in the space sector. ***Building on its positive track record in promoting the user and market uptake of Galileo and EGNOS and with a view to promoting the programmes as a package, the Agency should also be entrusted with undertaking promotional and commercialisation activities for Copernicus.*** Furthermore, it should perform the tasks which the Commission confers on it by means of one or more contribution agreements covering various other specific tasks associated with the programme.

## Amendment 20

### Proposal for a regulation

#### Recital 29

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

(29) The European Space Agency is an international organisation with extensive expertise in the space domain and which entered into a Framework Agreement with the European Community in 2004. It is therefore an important partner in the implementation of the Programme, with which any appropriate relations should be established. In this regard, and in compliance with the Financial Regulation, it is important to conclude a financial framework partnership agreement with the European Space Agency that governs all financial relations between the Commission, the Agency and the European Space Agency and ensures their consistency and conform to the Framework Agreement with the European Space Agency, in particular with Article 5 thereof. ***However***, as the European Space Agency is not a Union body and is not subject to Union law, it is essential, in order to protect the interests of the Union and its Member States, ***that such an***

##### *Amendment*

(29) The European Space Agency is an international organisation with extensive expertise in the space domain and which entered into a Framework Agreement with the European Community in 2004. It is therefore an important partner in the implementation of the Programme, with which any appropriate relations should be established. In this regard, and in compliance with the Financial Regulation, it is important to conclude a financial framework partnership agreement with the European Space Agency that governs all financial relations between the Commission, the Agency and the European Space Agency and ensures their consistency and conform to the Framework Agreement with the European Space Agency, in particular with Article 5 thereof. As the European Space Agency is not a Union body and is not subject to Union law, it is essential ***that such an agreement contains adequate requirements regarding operating rules at***



***agreement be conditional on the introduction of appropriate operating rules in the European Space Agency.*** The agreement should also contain all the clauses necessary to safeguard the Union's financial interests.

***the European Space Agency*** in order to protect the interests of the Union and its Member States. The agreement should also contain all the clauses necessary to safeguard the Union's financial interests.

## **Amendment 21**

### **Proposal for a regulation Recital 31**

#### *Text proposed by the Commission*

(31) To structurally embed the user representation in the governance of GOVSATCOM and to aggregate user needs and requirements across national ***and civil-military*** boundaries, the relevant Union entities with close user-ties, such as ***the European Defence Agency***, the European Border and Coast Guard Agency, the European Maritime Safety Agency, the European Fisheries Control Agency, the European Union Agency for Law Enforcement Cooperation, the ***Military Planning and Conduct Capability/*** Civilian Planning and Conduct Capability and the Emergency Response Coordination Centre should have coordinating roles for specific user groups. At an aggregated level the Agency ***and the European Defence Agency*** should ***respectively*** represent the ***civilian and military*** user ***communities*** and may monitor operational use, demand, conformance to requirements and evolving needs and requirements.

#### *Amendment*

(31) To structurally embed the user representation in the governance of GOVSATCOM and to aggregate user needs and requirements across national boundaries, the relevant Union entities with close user-ties, such as the European Border and Coast Guard Agency, the European Maritime Safety Agency, the European Fisheries Control Agency, the European Union Agency for Law Enforcement Cooperation, the Civilian Planning and Conduct Capability and the Emergency Response Coordination Centre should have coordinating roles for specific user groups. At an aggregated level the Agency should represent the user ***community*** and may monitor operational use, demand, conformance to requirements and evolving needs and requirements.

## **Amendment 22**

### **Proposal for a regulation Recital 36**

#### *Text proposed by the Commission*

(36) To ensure the secure circulation of

#### *Amendment*

(36) To ensure the secure circulation of

information, appropriate rules should be established to ensure equivalence of security rules for the different public and private entities, as well as natural persons, involved in the implementation of the Programme.

information, appropriate rules should be established to ensure equivalence of security rules for the different public and private entities, as well as natural persons, involved in the implementation of the Programme, ***with the establishment of several levels of access to information and, implicitly, security of access to information.***

## Amendment 23

### Proposal for a regulation Recital 36 a (new)

*Text proposed by the Commission*

*Amendment*

***(36a) The cyber security of European space infrastructures, both ground and space, is key to ensuring the continuity of the operations of the systems, and their effective ability to carry out the tasks continuously and to provide the services required.***

## Amendment 24

### Proposal for a regulation Recital 38

*Text proposed by the Commission*

*Amendment*

(38) A growing number of key economic sectors, in particular transport, telecommunications, agriculture and energy, increasingly use satellite navigation systems, ***not to mention the synergies with activities linked to the security and defence*** of the Union and its Member States. Having full control of satellite navigation should therefore guarantee the Union's technological independence, including in the longer term for the components of infrastructure equipment, and ensure its strategic autonomy.

(38) A growing number of key economic sectors, in particular transport, telecommunications, agriculture and energy, increasingly use satellite navigation systems. ***Satellite navigation also plays a role in the context of*** the security of the Union and its Member States. Having full control of satellite navigation should therefore guarantee the Union's technological independence, including in the longer term for the components of infrastructure equipment, and ensure its strategic autonomy.

## Amendment 25

### Proposal for a regulation Recital 40

#### *Text proposed by the Commission*

(40) The aim of EGNOS is to improve the quality of open signals from existing global navigation satellite systems, in particular those emitted by the Galileo system. The services provided by EGNOS should cover, as a priority, the Member States' territories geographically located in Europe, including for this purpose the Azores, the Canary Islands and Madeira, with the aim to cover those territories by the end of 2025. Subject to technical feasibility and, for the safety of life, on the basis of international agreements, the geographical coverage of the services provided by EGNOS could be extended to other regions of the world. Without prejudice to Regulation [2018/XXXX] [EASA Regulation] and the necessary monitoring of Galileo service quality for aviation purposes, it should be noted that while the signals emitted by Galileo may effectively be used to facilitate the positioning of aircraft, only local or regional augmentation systems such as EGNOS in Europe may constitute air-traffic management (ATM) services and air navigation services (ANS).

#### *Amendment*

(40) The aim of EGNOS is to improve the quality of open signals from existing global navigation satellite systems, in particular those emitted by the Galileo system. The services provided by EGNOS should cover, as a priority, the Member States' territories geographically located in Europe, including for this purpose the Azores, the Canary Islands and Madeira, with the aim to cover those territories by the end of 2025. Subject to technical feasibility and, for the safety of life, on the basis of international agreements, the geographical coverage of the services provided by EGNOS could be extended to other regions of the world. Without prejudice to Regulation 2018/1139 of the European Parliament and of the Council <sup>1a</sup> and the necessary monitoring of Galileo service quality **and safety performance** for aviation purposes, it should be noted that while the signals emitted by Galileo may effectively be used to facilitate the positioning of aircraft, only local or regional augmentation systems such as EGNOS in Europe may constitute air-traffic management (ATM) services and air navigation services (ANS).

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<sup>1a</sup> **Regulation (EU) 2018/1139 of the European Parliament and of the Council of 4 July 2018 on common rules in the field of civil aviation and establishing a European Union Aviation Safety Agency, and amending Regulations (EC) No 2111/2005, (EC) No 1008/2008, (EU) No 996/2010, (EU) No 376/2014 and Directives 2014/30/EU and 2014/53/EU of the European Parliament and of the**

## **Amendment 26**

### **Proposal for a regulation Recital 40 a (new)**

*Text proposed by the Commission*

*Amendment*

***(40a) EGNOS can assist precision agriculture and help European farmers to eliminate waste, decrease over-application of fertilisers and herbicides, and optimise crop yields. EGNOS already has an important “user community”, but the number of farming machinery compatible with navigation technology is more limited. That issue should be tackled.***

## **Amendment 27**

### **Proposal for a regulation Recital 41**

*Text proposed by the Commission*

*Amendment*

(41) It is imperative that the continuity, sustainability and future availability of the services provided by the Galileo and EGNOS systems be ensured. In a changing environment and rapidly developing market, their development should also continue and new generations of these systems should be prepared.

(41) It is imperative that the continuity, sustainability, ***security, reliability, accuracy*** and future availability of the services provided by the Galileo and EGNOS systems be ensured. In a changing environment and rapidly developing market, their development should also continue and new generations of these systems should be prepared.

## **Amendment 28**

### **Proposal for a regulation Recital 44 a (new)**

**(44a)** *In order to support the exploitation of the services provided by Galileo and EGNOS and to support downstream services, in particular in the transport sector, the competent authorities should develop, common standards and certifications at international level.*

## **Amendment 29**

### **Proposal for a regulation Recital 45**

*Text proposed by the Commission*

*Amendment*

**(45)** *Considering the importance for Galileo and EGNOS of their ground-based infrastructure and the impact thereof on their security, the determination of the location of the infrastructure should made by the Commission. The deployment of the ground-based infrastructure of the systems should continue to follow an open and transparent process.*

*deleted*

## **Amendment 30**

### **Proposal for a regulation Recital 46**

*Text proposed by the Commission*

*Amendment*

**(46)** To maximise the socio-economic benefits of Galileo and EGNOS, notably in the area of security, the use of the services provided by EGNOS and Galileo in other Union policies *should be promoted where this is justified and beneficial.*

**(46)** To maximise the socio-economic benefits of Galileo and EGNOS, notably in the area of security, the use of the services provided by EGNOS and Galileo *should be mainstreamed, where possible*, in other Union policies. *Measures to encourage the use of those services in all Member States are also an important stage in the process.*

## Amendment 31

### Proposal for a regulation

#### Recital 47

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

(47) Copernicus should ensure an autonomous access to environmental knowledge and key technologies for Earth observation and geo-information services, thereby enabling the Union to achieve independent decision-making and actions in the fields of the environment, climate change, civil protection, security, as well as the digital economy, among others.

##### *Amendment*

(47) Copernicus should ensure an autonomous access to environmental knowledge and key technologies for Earth observation and geo-information services, thereby enabling the Union to achieve independent decision-making and actions in the fields of the environment, ***including agriculture, biodiversity, land use, forestry, rural development and fisheries,*** climate change, ***cultural heritage sites,*** civil protection, security, ***including of infrastructures,*** as well as the digital economy, among others.

## Amendment 32

### Proposal for a regulation

#### Recital 48

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

(48) Copernicus should build on and ensure continuity with the activities and achievements under Regulation (EU) No 377/2014 of the European Parliament and of the Council<sup>17</sup> establishing the Union Earth observation and monitoring programme (Copernicus) as well as Regulation (EU) No 911/2010 of the European Parliament and of the Council on the European Earth monitoring programme (GMES) and its initial operations<sup>18</sup> establishing the predecessor Global Monitoring for Environment and Security (GMES) programme and the rules for implementation of its initial operations, taking into account recent trends in research, technological advances and innovations impacting the Earth observation domain, as well as developments in big data analytics and

##### *Amendment*

(48) ***Existing capacities should be built on and should be complemented by new assets, which may be developed in common among the responsible entities. To that end, the Commission should work closely with the European Space Agency, Member States and, where applicable, other entities owning relevant space and in situ assets.*** Copernicus should build on and ensure continuity with the activities and achievements under Regulation (EU) No 377/2014 of the European Parliament and of the Council<sup>17</sup> establishing the Union Earth observation and monitoring programme (Copernicus) as well as Regulation (EU) No 911/2010 of the European Parliament and of the Council on the European Earth monitoring programme (GMES) and its initial operations<sup>18</sup> establishing the predecessor Global

Artificial Intelligence and related strategies and initiatives at Union level<sup>19</sup>. To the greatest extent possible, it should make use of capacities for space-borne observations of the Member States, the European Space Agency, EUMETSAT<sup>20</sup>, as well as other entities, including commercial initiatives in Europe, thereby also contributing to the development of a viable commercial space sector in Europe. Where feasible and appropriate, it should also make use of the available in situ and ancillary data provided mainly by the Member States in accordance with Directive 2007/2/EC<sup>21</sup>. The Commission should work together with the Member States and the European Environment Agency to ensure an efficient access and use of the in-situ data sets for Copernicus.

Monitoring for Environment and Security (GMES) programme and the rules for implementation of its initial operations, taking into account recent trends in research, technological advances and innovations impacting the Earth observation domain, as well as developments in big data analytics and Artificial Intelligence and related strategies and initiatives at Union level<sup>19</sup>. To the greatest extent possible, it should make use of capacities for space-borne observations of the Member States, the European Space Agency, EUMETSAT<sup>20</sup>, as well as other entities, including commercial initiatives in Europe, thereby also contributing to the development of a viable commercial space sector in Europe. Where feasible and appropriate, it should also make use of the available in situ and ancillary data provided mainly by the Member States in accordance with Directive 2007/2/EC<sup>21</sup>. The Commission should work together with the Member States and the European Environment Agency to ensure an efficient access and use of the in-situ data sets for Copernicus.

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<sup>17</sup> Regulation (EU) No 377/2014 of the European Parliament and of the Council of 3 April 2014 establishing the Copernicus Programme and repealing Regulation (EU) No 911/2010 (OJ L 122, 24.4.2014, p. 44).

<sup>18</sup> Regulation (EU) No 911/2010 of the European Parliament and of the Council of 22 September 2010 on the European Earth monitoring programme (GMES) and its initial operations (2011 to 2013)(OJ L 276, 20.10.2010, p. 1).

<sup>19</sup> Communication "Artificial Intelligence for Europe" (COM(2018) 237 final), Communication "Towards a common European data space" (COM(2018) 232 final), Proposal for a Council Regulation on establishing the European High Performance Computing Joint Undertaking (COM(2018) 8 final).

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<sup>17</sup> Regulation (EU) No 377/2014 of the European Parliament and of the Council of 3 April 2014 establishing the Copernicus Programme and repealing Regulation (EU) No 911/2010 (OJ L 122, 24.4.2014, p. 44).

<sup>18</sup> Regulation (EU) No 911/2010 of the European Parliament and of the Council of 22 September 2010 on the European Earth monitoring programme (GMES) and its initial operations (2011 to 2013)(OJ L 276, 20.10.2010, p. 1).

<sup>19</sup> Communication "Artificial Intelligence for Europe" (COM(2018) 237 final), Communication "Towards a common European data space" (COM(2018) 232 final), Proposal for a Council Regulation on establishing the European High Performance Computing Joint Undertaking (COM(2018) 8 final).

<sup>20</sup> The European Organisation for the Exploitation of Meteorological Satellites

<sup>21</sup> Directive 2007/2/EC of the European Parliament and of the Council of 14 March 2007 establishing an Infrastructure for Spatial Information in the European Community (INSPIRE)

<sup>20</sup> The European Organisation for the Exploitation of Meteorological Satellites

<sup>21</sup> Directive 2007/2/EC of the European Parliament and of the Council of 14 March 2007 establishing an Infrastructure for Spatial Information in the European Community (INSPIRE)

## Amendment 33

### Proposal for a regulation Recital 49 a (new)

*Text proposed by the Commission*

*Amendment*

***(49a) The full potential of Copernicus for the Union society and economy should be fully unleashed beyond direct beneficiaries by means of an intensification of user uptake measures, which requires further action to render the data usable by non-specialists and thereby stimulate growth, job creation and knowledge transfers.***

## Amendment 34

### Proposal for a regulation Recital 52

*Text proposed by the Commission*

*Amendment*

(52) With regard to data acquisition, the activities under Copernicus should aim at completing and maintaining the existing space infrastructure, preparing the long-term replacement of the satellites at the end of their lifetime, as well as initiating new missions addressing new observation systems to support meeting the challenge of global climate change (e.g. anthropogenic CO<sub>2</sub> and other greenhouse gas emissions monitoring). Activities under Copernicus should expand their global monitoring coverage over the polar regions and support environmental compliance

(52) With regard to data acquisition, the activities under Copernicus should aim at completing and maintaining the existing space infrastructure, preparing the long-term replacement of the satellites at the end of their lifetime, as well as initiating new missions ***whose feasibility is currently being explored by the European Space Agency*** addressing new observation systems to support meeting the challenge of global climate change (e.g. anthropogenic CO<sub>2</sub> and other greenhouse gas emissions monitoring). Activities under Copernicus should expand their global



assurance, statutory environmental monitoring and reporting and innovative environmental applications (e.g. for crops monitoring, water management and enhanced fire monitoring). In doing so, Copernicus should leverage and take maximum advantage of the investments made under the previous funding period (2014-2020), while exploring new operational and business models to further complement the Copernicus capacities. Copernicus should also build on successful partnerships with Member States to further develop its security dimension under appropriate governance mechanisms, in order to respond to evolving user needs in the security domain.

monitoring coverage over the polar regions and support environmental compliance assurance, statutory environmental monitoring and reporting and innovative environmental applications (e.g. for crops monitoring, water management and enhanced fire monitoring). In doing so, Copernicus should leverage and take maximum advantage of the investments made under the previous funding period (2014-2020), while exploring new operational and business models to further complement the Copernicus capacities. Copernicus should also build on successful partnerships with Member States to further develop its security dimension under appropriate governance mechanisms, in order to respond to evolving user needs in the security domain.

## Amendment 35

### Proposal for a regulation

#### Recital 53

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

(53) As part of the data and information processing function, Copernicus should ensure the long-term sustainability and further development of the core Copernicus services, providing information in order to satisfy public sector needs and those arising from the Union's international commitments, and to maximise opportunities for commercial exploitation. In particular, Copernicus should deliver, at the local, national, European and global scale, information on the state of the atmosphere; information on the state of the oceans; information in support of land monitoring supporting the implementation of local, national and Union policies; information in support of climate change adaptation and mitigation; geospatial information in support of emergency management, including through prevention activities, environmental compliance

##### *Amendment*

(53) As part of the data and information processing function, Copernicus should ensure the long-term sustainability and further development of the core Copernicus services, providing information in order to satisfy public sector needs and those arising from the Union's international commitments, and to maximise opportunities for commercial exploitation. In particular, Copernicus should deliver, at the local, national, European and global scale, information on the state of the atmosphere, ***including air quality***; information on the state of the oceans; information in support of land monitoring supporting the implementation of local, national and Union policies; information in support of climate change adaptation and mitigation; geospatial information in support of emergency management, including through prevention activities,

assurance, as well as civil security including support for the Union's external action. The Commission should identify appropriate contractual arrangements fostering the sustainability of service provision.

environmental compliance assurance, as well as civil security including support for the Union's external action. The Commission should identify appropriate contractual arrangements fostering the sustainability of service provision.

## Amendment 36

### Proposal for a regulation Recital 54 a (new)

*Text proposed by the Commission*

*Amendment*

***(54a) In order to achieve the objectives of Copernicus on a sustainable basis, a committee (the Copernicus sub-committee) could be established to assist the Commission in ensuring the coordination of contributions to Copernicus by the Union, the User Fora, the Member States and inter-governmental organisations as well as the private sector, making the best use of existing capacities and identifying gaps to be addressed at Union level.***

## Amendment 37

### Proposal for a regulation Recital 55

*Text proposed by the Commission*

*Amendment*

(55) The implementation of the Copernicus services should facilitate the public uptake of services as users would be able to anticipate the availability and evolution of services as well as cooperation with Member States and other parties. To this end, the ***Commission and its*** entrusted entities ***providing services*** should engage closely with different user communities across Europe in further developing the Copernicus services and information portfolio to ensure that evolving public

(55) The implementation of the Copernicus services should facilitate the public uptake of services as users would be able to anticipate the availability and evolution of services as well as cooperation with Member States and other parties. To this end, the ***Agency and the Copernicus*** entrusted entities should engage closely with different user communities across Europe in further developing the Copernicus services and information portfolio to ensure that evolving public

sector and policy needs are met and thus the uptake of Earth observation data can be maximised. The Commission and Member States should work together to develop the in-situ component of Copernicus and to facilitate the integration of in-situ datasets with space datasets for upgraded Copernicus services.

sector and policy needs are met and thus the uptake of Earth observation data can be maximised ***in the interest of European citizens***. The Commission and Member States should work together to develop the in-situ component of Copernicus and to facilitate the integration of in-situ datasets with space datasets for upgraded Copernicus services.

## **Amendment 38**

### **Proposal for a regulation Recital 56 a (new)**

*Text proposed by the Commission*

*Amendment*

***(56a) Member States, the Commission and the responsible entities should periodically run the Copernicus information campaigns regarding the benefits of the programme, giving all potential users access to the relevant information and data.***

## **Amendment 39**

### **Proposal for a regulation Recital 57 a (new)**

*Text proposed by the Commission*

*Amendment*

***(57a) Copernicus' Climate Change services, although still in a pre-operational phase, are already well on track as the number of users doubled between 2015 and 2016. All Climate Change services should become fully operational as soon as possible and thereby provide the continuous flow of data necessary for effective climate change mitigation and adaptation actions.***

## **Amendment 40**

**Proposal for a regulation**  
**Recital 59**

*Text proposed by the Commission*

(59) To promote and facilitate the use of Earth observation data and technologies both by local authorities, by small and medium-sized enterprises, scientists and researchers, dedicated networks for Copernicus data distribution, including national and regional bodies, should be promoted through user uptake activities. To this end, the Commission and the Member States should strive to establish closer links between Copernicus and Union and national policies in order to drive the demand for commercial applications and services and enable enterprises, particular small and medium-sized enterprises and start-ups, to develop applications based on Copernicus data and information aiming at developing a competitive Earth observation data eco-system in Europe.

*Amendment*

(59) To promote and facilitate the use of Earth observation data and technologies both by local **and regional** authorities, by small and medium-sized enterprises, scientists and researchers, dedicated networks for Copernicus data distribution, including national and regional bodies, should be promoted through user uptake activities. To this end, the Commission and the Member States should strive to establish closer links between Copernicus and Union and national policies in order to drive the demand for commercial applications and services and enable enterprises, particular small and medium-sized enterprises and start-ups, to develop applications based on Copernicus data and information aiming at developing a competitive Earth observation data eco-system in Europe.

**Amendment 41**

**Proposal for a regulation**  
**Recital 59 a (new)**

*Text proposed by the Commission*

*Amendment*

***(59a) Given the major potential of satellite imagery for sustainable and efficient resource management, providing reliable and timely information on crop and soil conditions for example, that service should be further enhanced to meet end-user needs and ensure data linkage.***

**Amendment 42**

**Proposal for a regulation**  
**Recital 62**

(62) Following the requests of the European Parliament and of the Council and, the Union established a support framework for space surveillance and tracking (SST) by means of Decision No 541/2014/EU of the European Parliament and of the Council of 16 April 2014 establishing a Framework for Space Surveillance and Tracking Support<sup>24</sup>. Space debris has become a serious threat to the security, safety and sustainability of space activities. The SST is therefore primordial to preserve the continuity of the Programme's components and their contributions to Union policies. By seeking to prevent the proliferation of space debris, SST contributes to ensuring the sustainable and guaranteed access to and use of space, which is a global common.

(62) Following the requests of the European Parliament and of the Council and, the Union established a support framework for space surveillance and tracking (SST) by means of Decision No 541/2014/EU of the European Parliament and of the Council<sup>24</sup>. Space debris has become a serious threat to the security, safety and sustainability of space activities. The SST is therefore primordial to preserve the continuity of the Programme's components and their contributions to Union policies. By seeking to prevent the proliferation of space debris, SST contributes to ensuring the sustainable and guaranteed access to and use of space, which is a global common. ***The SST is intended also to facilitate the preparation of European earth orbit 'clean-up' projects.***

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<sup>24</sup> OJ L 158, 27.5.2014, p. 227.

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<sup>24</sup> Decision No 541/2014/EU of the European Parliament and of the Council of 16 April 2014 establishing a Framework for Space Surveillance and Tracking Support (OJ L 158, 27.5.2014, p. 227).

## **Amendment 43**

### **Proposal for a regulation Recital 63**

(63) The SST should further develop the performance and autonomy of SST capabilities. To this end, it should lead to the establishment of an autonomous European catalogue of space objects, building on data from the network of SST sensors. The SST should also continue to support operation and delivery of SST services. As SST is a user-driven system, appropriate mechanisms should be put in

(63) The SST should further develop the performance and autonomy of SST capabilities. To this end, it should lead to the establishment of an autonomous European catalogue of space objects, building on data from the network of SST sensors. ***The catalogue could follow the example of other space capable nations and make some of its data available for non-commercial and research purposes.***

place to collect user requirements, including those relating to security.

SST should also continue to support operation and delivery of SST services. As SST is a user-driven system, appropriate mechanisms should be put in place to collect user requirements, including those relating to security *and the transmission of relevant information to and from public institutions to improve the effectiveness of the system.*

#### Amendment 44

##### Proposal for a regulation Recital 67

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

(67) In addition, the SST should be complementary to existing mitigation measures, such as the Space Debris Mitigation Guidelines of the Committee on the Peaceful Uses of Outer Space (COPUOS) and Guidelines for the Long-term Sustainability of Outer Space Activities, or other initiatives, to ensure the safety, security and sustainability of outer space activities. With a view to reducing risks of collision, the SST would also seek synergies with initiatives *of* active removal *and passivation measures* of space debris. The SST should contribute to ensuring the peaceful use and exploration of outer space. The increase in space activities may have implication on the international initiatives in the area of the space traffic management. The Union should monitor those developments and may take them into consideration in the context of the mid-term review of the current MFF.

###### *Amendment*

(67) In addition, the SST should be complementary to existing mitigation measures, such as the Space Debris Mitigation Guidelines of the Committee on the Peaceful Uses of Outer Space (COPUOS) and Guidelines for the Long-term Sustainability of Outer Space Activities, or other initiatives, to ensure the safety, security and sustainability of outer space activities. With a view to reducing risks of collision, the SST would also seek synergies with initiatives *aimed at promoting the development and deployment of technological systems designed for the* active removal of space debris. The SST should contribute to ensuring the peaceful use and exploration of outer space. The increase in space activities may have implication on the international initiatives in the area of the space traffic management. The Union should monitor those developments and may take them into consideration in the context of the mid-term review of the current MFF.

#### Amendment 45

**Proposal for a regulation**  
**Recital 70**

*Text proposed by the Commission*

(70) Extreme and major space weather events may threaten the safety of citizens and disrupt the operations of space-based and ground-based infrastructure. A space weather function should therefore be established as part the Programme with an aim of assessing the space weather risks and corresponding user needs, raising the awareness of space weather risks, ensuring the delivery of user-driven space weather services, and improving Member *States* capabilities to produce space weather service. The Commission should prioritise the sectors to which the operational space weather services are to be provided taking into account the user needs, risks and technological readiness. In the long term, the needs of other sectors may be addressed. The delivery of services at Union level according to the users' needs will require targeted, coordinated and continued research and development activities to support space weather services evolution. The delivery of the space weather services should build on the existing national and Union capabilities and enable a broad participation of Member States and involvement of the private sector.

*Amendment*

(70) Extreme and major space weather events may threaten the safety of citizens and disrupt the operations of space-based and ground-based infrastructure. A space weather function should therefore be established as part the Programme with an aim of assessing the space weather risks and corresponding user needs, raising the awareness of space weather risks, ensuring the delivery of user-driven space weather services, and improving Member *States'* capabilities to produce space weather service. The Commission should prioritise the sectors to which the operational space weather services are to be provided taking into account the user needs, risks and technological readiness. In the long term, the needs of other sectors may be addressed. The delivery of services at Union level according to the users' needs will require targeted, coordinated and continued research and development activities to support space weather services evolution. The delivery of the space weather services should build on the existing national and Union capabilities and enable a broad participation of Member States, *international organisations* and involvement of the private sector.

**Amendment 46**

**Proposal for a regulation**  
**Recital 73**

*Text proposed by the Commission*

(73) GOVSATCOM is a user-centric programme with a strong security dimension. The use-cases may be analysed for three main families: crisis management, *which may include civilian and military*

*Amendment*

(73) GOVSATCOM is a user-centric programme with a strong security dimension. The use-cases may be analysed for three main families: crisis management, natural and man-made disasters,

***Common Security and Defence missions and operations***, natural and man-made disasters, humanitarian crises, and maritime emergencies; surveillance, which may include border surveillance, pre-frontier surveillance sea-border surveillance, maritime surveillance, surveillance of illegal trafficking; and key infrastructures, which may include diplomatic network, police communications, critical infrastructures (e.g. energy, transport, water barriers) and space infrastructures.

humanitarian crises, and maritime emergencies; surveillance, which may include border surveillance, pre-frontier surveillance sea-border surveillance, maritime surveillance, surveillance of illegal trafficking; and key infrastructures, which may include diplomatic network, police communications, ***digital infrastructure (e. g. data centres, servers)***, critical infrastructures (e.g. energy, transport, water barriers ***such as dams***) and space infrastructures.

## Amendment 47

### Proposal for a regulation Recital 78

#### *Text proposed by the Commission*

(78) For users of satellite communications the user equipment is the all-important operational interface. The EU GOVSATCOM approach ***makes*** it possible for ***most*** users to continue to use their existing user equipment for GOVSATCOM services ***in so far as they make use of Union technologies***.

#### *Amendment*

(78) For users of satellite communications the user equipment is the all-important operational interface. The EU GOVSATCOM approach ***should make*** it possible for users to continue to use their existing user equipment for GOVSATCOM services.

## Amendment 48

### Proposal for a regulation Recital 86

#### *Text proposed by the Commission*

(86) Infrastructure dedicated to the Programme may require additional research and innovation, which may be supported under Horizon Europe, aiming for coherence with activities in this domain by the European Space Agency. Synergies with Horizon Europe should ensure that research and innovation needs of the space sector are identified and established as part of the strategic research and innovation

#### *Amendment*

(86) Infrastructure dedicated to the Programme may require additional research and innovation, which may be supported under Horizon Europe, aiming for coherence with activities in this domain by the European Space Agency. Synergies with Horizon Europe should ensure that research and innovation needs of the space sector are identified and established as part of the strategic research and innovation



planning process. Space data and services made freely available by the Programme will be used to develop breakthrough solutions through research and innovation, including in Horizon Europe, ***in particular for sustainable food and natural resources, climate monitoring, smart cities, automated vehicles, security and disaster management***. The strategic planning process under Horizon Europe will identify research and innovation activities that should make use of Union-owned infrastructures such as Galileo, EGNOS and Copernicus. Research infrastructures, in particular in situ observing networks will constitute essential elements of the in situ observation infrastructure enabling the Copernicus services

planning process. ***It is important to assure continuity between the solutions developed through Horizon Europe and the operations of the components of the Programme***. Space data and services made freely available by the Programme will be used to develop breakthrough solutions through research and innovation, including in Horizon Europe, ***on the main European policies***. The strategic planning process under Horizon Europe will identify research and innovation activities that should make use of Union-owned infrastructures such as Galileo, EGNOS and Copernicus. Research infrastructures, in particular in situ observing networks will constitute essential elements of the in situ observation infrastructure enabling the Copernicus services.

#### **Amendment 49**

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

##### **Recital 87**

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

(87) Regulation (EU) No 912/2010 established a Union agency, called the European GNSS Agency, to manage certain aspects of the Galileo and EGNOS satellite navigation programmes. The present Regulation provides in particular that the European GNSS Agency will be entrusted with new tasks, not only in respect of Galileo and EGNOS but also for other components of the Programme, especially security accreditation. The name, tasks and organisational aspects of the European GNSS Agency must therefore be adapted accordingly.

###### *Amendment*

(87) Regulation (EU) No 912/2010 established a Union agency, called the European GNSS Agency, to manage certain aspects of the Galileo and EGNOS satellite navigation programmes. The present Regulation provides in particular that the European GNSS Agency will be entrusted with new tasks, not only in respect of Galileo and EGNOS but also for other components of the Programme, especially security accreditation ***and cybersecurity***. The name, tasks and organisational aspects of the European GNSS Agency must therefore be adapted accordingly.

#### **Amendment 50**

**Proposal for a regulation**  
**Recital 88**

*Text proposed by the Commission*

(88) In view of its extended scope, which will no longer be limited to Galileo and EGNOS, the European GNSS Agency should henceforth be changed. However, the continuity of the activities of the European GNSS Agency, including continuity as regards rights and obligations, staff and the validity of any decisions taken, should be ensured under the Agency.

*Amendment*

(88) In view of its extended scope, which will no longer be limited to Galileo and EGNOS, the European GNSS Agency should henceforth be changed. ***Where it entrusts tasks to the Agency, the Commission should ensure appropriate funding for the management and execution of those tasks, including adequate human and financial resources.*** However, the continuity of the activities of the European GNSS Agency, including continuity as regards rights and obligations, staff and the validity of any decisions taken, should be ensured under the Agency.

**Amendment 51**

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

*Text proposed by the Commission*

(2) ‘space weather events’ means naturally occurring variations in the space environment between the Sun and the Earth, including solar flares, solar energetic particles, solar wind, and coronal mass ejections that can lead to solar storms (geomagnetic storms, solar radiation storms and ionospheric disturbances) potentially impacting Earth;

*Amendment*

(2) ‘space weather events’ means naturally occurring variations in the space environment between the Sun and the Earth, including solar flares, solar energetic particles, solar wind, and coronal mass ejections that can lead to solar storms (geomagnetic storms, solar radiation storms and ionospheric disturbances) potentially impacting Earth ***or space-based infrastructures***;

**Amendment 52**

**Proposal for a regulation**  
**Article 2 – paragraph 1 – point 5**

*Text proposed by the Commission*

(5) ‘space situational awareness’

*Amendment*

(5) ‘space situational awareness’

('SSA') means **a holistic approach towards** the main space hazards, encompassing collision between satellites and space debris, space weather phenomena, and near earth objects;

('SSA') means **comprehensive knowledge and understanding of** the main space hazards, encompassing collision between satellites and space debris, space weather phenomena, and near earth objects;

## Amendment 53

### Proposal for a regulation

#### Article 2 – paragraph 1 – point 6

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

(6) 'blending operation' means actions supported by the EU budget, including within blending facilities pursuant to Article 2(6) of the Financial Regulation, combining non-repayable forms of support and/or financial instruments from the EU budget with repayable forms of support from development or other public finance institutions, as well as from commercial finance institutions and investors;

##### *Amendment*

(6) 'blending operation' means actions supported by the EU budget, including within blending facilities pursuant to Article 2(6) of the Financial Regulation, combining non-repayable forms of support and/or financial instruments **and/or budgetary guarantees** from the EU budget with repayable forms of support from development or other public finance institutions, as well as from commercial finance institutions and investors;

## Amendment 54

### Proposal for a regulation

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

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

(10) 'SST data' means physical parameters of space objects acquired by SST sensors or orbital parameters of space objects derived from SST sensors' observations in the framework of the space surveillance and tracking ('SST') component;

##### *Amendment*

(10) 'SST data' means physical parameters of space objects, **including space debris**, acquired by SST sensors or orbital parameters of space objects derived from SST sensors' observations in the framework of the space surveillance and tracking ('SST') component;

## Amendment 55

### Proposal for a regulation

#### Article 2 – paragraph 1 – point 14 a (new)

**(14a) 'Copernicus third-party-information' means information licensed and provided for use within Copernicus activities which originate from sources other than Copernicus Sentinels;**

## **Amendment 56**

### **Proposal for a regulation**

#### **Article 2 – paragraph 1 – point 23 – subparagraph 1**

*Text proposed by the Commission*

*Amendment*

'Copernicus core users' which benefit from Copernicus data and Copernicus information and have the additional role of driving the evolution of Copernicus, comprising the Union institutions and bodies and European national, or regional public bodies entrusted with a public service mission for the definition, implementation, enforcement or monitoring of environmental, civil protection, safety or security policies;

'Copernicus core users' which benefit from Copernicus data and Copernicus information and have the additional role of driving the evolution of Copernicus, comprising the Union institutions and bodies and European national, or regional public bodies entrusted with a public service mission for the definition, implementation, enforcement or monitoring of environmental, civil protection, safety, ***including safety of infrastructure*** or security policies;

## **Amendment 57**

### **Proposal for a regulation**

#### **Article 2 – paragraph 1 – point 23 – subparagraph 2 a (new)**

*Text proposed by the Commission*

*Amendment*

***'Copernicus core services' means the operational services clustered in the data and information processing component or service component, which are of general and common interest of the Member States and the Union;***

## **Amendment 58**

### **Proposal for a regulation**

#### **Article 2 – paragraph 1 – point 23 a (new)**

*Text proposed by the Commission*

*Amendment*

**(23 a) "space sector" means:**

**"the upstream sector", which includes activities leading to an operational space system, and space exploration;**

**"the downstream sector" which includes activities relating to exploiting satellite data to develop space-related products and services to end-users.**

*Justification*

*Space sector should be further defined and distinguished in an upstream and downstream sector.*

## **Amendment 59**

### **Proposal for a regulation**

#### **Article 3 – paragraph 1 – point a**

*Text proposed by the Commission*

(a) an autonomous civil global navigation satellite system (GNSS) under civil control comprising a constellation of satellites, centres and a global network of stations on the ground, offering positioning, navigation and time measurement services and **fully** integrating the needs and requirements of security ('Galileo');

*Amendment*

(a) an autonomous civil global navigation satellite system (GNSS) under civil control comprising a constellation of satellites, centres and a global network of stations on the ground, offering positioning, navigation and time measurement services and, **where appropriate**, integrating the needs and requirements of security ('Galileo');

## **Amendment 60**

### **Proposal for a regulation**

#### **Article 3 – paragraph 1 – point c**

*Text proposed by the Commission*

(c) an autonomous, user-driven, Earth observation system under civil control, offering geo-information data and services, comprising satellites, ground infrastructure, data and information processing facilities,

*Amendment*

(c) an autonomous, user-driven, Earth observation system under civil control, offering geo-information data and services **based on a free and open data policy**, comprising satellites, ground infrastructure,

and distribution infrastructure, and fully integrating the needs and requirements of security ('Copernicus');

data and information processing facilities, and distribution infrastructure, and fully integrating the needs and requirements of security ('Copernicus');

## Amendment 61

### Proposal for a regulation

#### Article 3 – paragraph 1 – point d

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

(d) a space surveillance and tracking system aiming to improve, operate and provide data, information and services related to the surveillance and tracking of active and inactive spacecraft, ***discarded launchers stages, debris and debris fragments*** that orbit around the Earth and complemented by observational parameters related to space weather events and the risk of near earth objects ('NEOs') approaching earth monitoring ('SST');

##### *Amendment*

(d) a space surveillance and tracking system aiming to improve, operate and provide data, information and services related to the surveillance and tracking of active and inactive spacecraft ***and space***, debris that orbit around the Earth and complemented by observational parameters related to space weather events and the risk of near earth objects ('NEOs') approaching earth monitoring ('SST');

## Amendment 62

### Proposal for a regulation

#### Article 3 – paragraph 2

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

Additionally, the Programme shall include measures for ensuring ***efficient*** access to space ***for the Programme and*** for fostering an innovative space sector.

##### *Amendment*

Additionally, the Programme shall include measures for ensuring ***autonomous*** access to space, ***for tackling cyber threats***, for fostering an innovative ***and competitive*** space sector, ***upstream and downstream, and for supporting space diplomacy***.

## Amendment 63

### Proposal for a regulation

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

*Text proposed by the Commission*

1. The Programme shall the following general objectives:

*Amendment*

1. The Programme shall **have** the following general objectives:

**Amendment 64**

**Proposal for a regulation**

**Article 4 – paragraph 1 – point a**

*Text proposed by the Commission*

- (a) provide, or contribute to the provision of, high-quality and up-to-date and, where appropriate, secure space-related data, information and services without interruption and wherever possible at global level, meeting existing and future needs and able to meet the Union's political priorities, including ***as regards*** climate change ***and security and defence***;

*Amendment*

- (a) provide, or contribute to the provision of, high-quality and up-to-date and, where appropriate, secure space-related data, information and services without interruption and wherever possible at global level, meeting existing and future needs and able to meet the Union's political priorities, including climate change; ***and support the evidence-based and independent decision-making capacity of the Union and its Member States***;

**Amendment 65**

**Proposal for a regulation**

**Article 4 – paragraph 1 – point b**

*Text proposed by the Commission*

- (b) maximise the socio-economic benefits, ***including by*** promoting the widest possible use of the data, information and services provided by the Programme's components;

*Amendment*

- (b) maximise the socio-economic benefits, ***in particular by strengthening the European downstream sector, thereby enabling growth and job creation in the Union and*** promoting the widest possible ***uptake of services and*** use of the data, information and services provided by the Programme's components ***both within and outside the Union***;

**Amendment 66**

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

*Text proposed by the Commission*

(c) enhance the security of the Union and its Member States, ***its freedom of action*** and its strategic autonomy, in particular in ***terms of technologies and evidence-based decision-making***;

*Amendment*

(c) enhance the security, ***including cybersecurity***, of the Union and its Member States, and ***reinforce*** its strategic autonomy, in particular in ***industrial and technological terms***;

**Amendment 67**

**Proposal for a regulation**  
**Article 4 – paragraph 1 – point c a (new)**

*Text proposed by the Commission*

*Amendment*

(ca) ***strengthen the European industrial and scientific ecosystem in the field of space, by establishing a coherent framework that combines the excellence of European training and know-how, the development of high-level design, manufacturing capabilities and the strategic vision needed in an increasingly competitive sector***;

**Amendment 68**

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

*Text proposed by the Commission*

*Amendment*

(d) promote the role of the Union in the international arena as a leading actor in the space sector and strengthening its role in tackling global challenges and supporting global initiatives, including with ***regards*** to ***climate change and*** sustainable development.

(d) promote the role of the Union in the international arena as a leading actor in the space sector and strengthening its role in tackling global challenges and supporting global initiatives, including with ***regard*** to sustainable development;

**Amendment 69**



**Proposal for a regulation**  
**Article 4 – paragraph 1 – point d a (new)**

*Text proposed by the Commission*

*Amendment*

**(da) strengthen the Union’s space diplomacy and encourage international cooperation to raise awareness of space as a common heritage of mankind;**

**Amendment 70**

**Proposal for a regulation**  
**Article 4 – paragraph 1 – point d b (new)**

*Text proposed by the Commission*

*Amendment*

**(db) promote Union technology and industry and foster the principle of reciprocity and fair competition at international level;**

**Amendment 71**

**Proposal for a regulation**  
**Article 4 – paragraph 1 – point d c (new)**

*Text proposed by the Commission*

*Amendment*

**(dc) enhance the safety of the Union and its Member States in various fields, in particular in transportation (aviation, including unmanned aerial vehicles, rail transports, navigation, road transports, autonomous driving), infrastructure building and monitoring, land monitoring and environment.**

**Amendment 72**

**Proposal for a regulation**  
**Article 4 – paragraph 2 – point a**

*Text proposed by the Commission*

(a) for Galileo and EGNOS: to provide *of* state-of-the-art and, where appropriate, secure positioning, navigation and timing services;

*Amendment*

(a) for Galileo and EGNOS: to provide ***long-term and continuous*** state-of-the-art and, where appropriate, secure positioning, navigation and timing services;

**Amendment 73**

**Proposal for a regulation**

**Article 4 – paragraph 2 – point b**

*Text proposed by the Commission*

(b) for Copernicus: to deliver accurate and reliable Earth Observation data and information, supplied on a long-term basis, to support the implementation and monitoring of the Union and its Member States' policies ***in the fields of the environment, climate change, agriculture and rural development, civil protection, safety and security, as well as the digital economy***;

*Amendment*

(b) for Copernicus: to deliver accurate and reliable Earth Observation data and information, supplied on a long-term basis, to support the implementation and monitoring of the Union and its Member States' ***user-driven*** policies ***and actions***;

**Amendment 74**

**Proposal for a regulation**

**Article 4 – paragraph 2 – point c**

*Text proposed by the Commission*

(c) for Space Situational Awareness ('SSA'): to enhance SST capabilities to monitor, track and identify space objects, to monitor space weather and to map and network Member States NEO capacities;

*Amendment*

(c) for Space Situational Awareness ('SSA'): to enhance SST capabilities to monitor, track and identify space objects ***and space debris***, to monitor space weather and to map and network Member States NEO capacities;

**Amendment 75**

**Proposal for a regulation**

**Article 4 – paragraph 2 – point e**

*Text proposed by the Commission*

*Amendment*

(e) to ***contribute, where this is required for the needs of the Programme,*** to an autonomous, secure and cost-efficient capability to access space;

(e) to ***ensure*** an autonomous, secure and cost-efficient capability to access ***to*** space;

**Amendment 76**

**Proposal for a regulation**

**Article 4 – paragraph 2 – point f**

*Text proposed by the Commission*

*Amendment*

(f) ***support and reinforce the competitiveness, entrepreneurship, skills and capacity to innovate of legal and natural persons from the Union active or wishing to become active in that sector, with particular regard to the position and needs of small and medium-sized enterprises and start-ups.***

(f) ***to foster the development of a strong and competitive Union space economy and maximise opportunities for Union enterprises of all sizes and all Union regions.***

**Amendment 77**

**Proposal for a regulation**

**Article 5 – paragraph 1 – introductory part**

*Text proposed by the Commission*

*Amendment*

The Programme shall support:

The Programme, ***in synergy with other Union and European Space Agency programmes and funding schemes,*** shall support:

**Amendment 78**

**Proposal for a regulation**

**Article 5 – paragraph 1 – point a**

*Text proposed by the Commission*

*Amendment*

(a) provision of launching services for the ***needs of the*** Programme;

(a) provision of launching services for the Programme ***including aggregate***

*launching service for the Union and for other entities, at their request, taking into account the essential security interests of the Union in accordance with Article 25, in order to enhance the competitiveness of European launchers and industries on the global market;*

## **Amendment 79**

### **Proposal for a regulation**

#### **Article 5 – paragraph 1 – point b**

*Text proposed by the Commission*

(b) development activities linked to autonomous, reliable and cost-efficient access to space;

*Amendment*

(b) development activities linked to autonomous, reliable and cost-efficient access to space *including alternative launching technologies and innovative systems or services, taking into account the essential security interests of the Union and its Member States, in accordance with Article 25;*

## **Amendment 80**

### **Proposal for a regulation**

#### **Article 5 – paragraph 1 – point c**

*Text proposed by the Commission*

(c) where this is required for the *needs* of the Programme, the necessary adaptations *to* the space ground infrastructure.

*Amendment*

(c) where this is required for the *objectives* of the Programme, the necessary *support for the maintenance, and developments of* the space ground infrastructure, *in particular existing infrastructures, rocket ranges and research centres.*

## **Amendment 81**

### **Proposal for a regulation**

#### **Article 6 – title**

*Text proposed by the Commission*

*Amendment*

Actions in support of an innovative Union space sector

Actions in support of an innovative **and competitive** Union space sector

## **Amendment 82**

### **Proposal for a regulation**

#### **Article 6 – paragraph 1 – point a**

*Text proposed by the Commission*

*Amendment*

(a) innovation activities for making best use of space technologies, infrastructure or services;

(a) innovation activities for **developing and** making best use of space technologies, infrastructure or services;

## **Amendment 83**

### **Proposal for a regulation**

#### **Article 6 – paragraph 1 – point a a (new)**

*Text proposed by the Commission*

*Amendment*

**(aa) appropriate measures to facilitate the uptake of innovative solutions resulting from research and innovation activities, in particular through synergies with other Union Funds, such as Horizon Europe and InvestEU, in order to support the development of downstream sectors of all the components of the Programme;**

## **Amendment 84**

### **Proposal for a regulation**

#### **Article 6 – paragraph 1 – point a b (new)**

*Text proposed by the Commission*

*Amendment*

**(ab) strengthening the European space sector in the export market;**

## **Amendment 85**

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

*Text proposed by the Commission*

(b) the establishment of space-related innovation partnerships to develop innovative products or services and for the subsequent purchase of the resulting *supply* or services;

*Amendment*

(b) the establishment of space-related innovation partnerships to develop innovative products or services and for the subsequent purchase of the resulting *products* or services *for the needs of the Programme*;

**Amendment 86**

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

*Text proposed by the Commission*

*Amendment*

*(ba) design, testing, implementation and deployment of data-driven interoperable space solutions for public services, fostering innovation and establishing common frameworks in order to realise the full potential of public administrations' services for citizens and businesses;*

**Amendment 87**

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

*Text proposed by the Commission*

*Amendment*

(c) entrepreneurship, from early stage to scaling-up, in accordance with Article 21 and other access to finance provisions as referred to in Article 18 and Chapter I of Title III;

(c) entrepreneurship, *including* from early stage to scaling-up, in accordance with Article 21 *by relying on* and other access to finance provisions as referred to in Article 18 and Chapter I of Title III;

**Amendment 88**

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

*Text proposed by the Commission*

(d) cooperation ***between undertakings*** in the form of space hubs bringing together, at regional and national levels, actors from the space and digital sectors, as well as users, and providing support to citizens and companies to foster entrepreneurship and skills;

*Amendment*

(d) cooperation in the form ***of a network*** of space hubs bringing together, ***in particular*** at regional and national levels, actors from the space and digital sectors, as well as users, and providing support, ***facilities and services*** to citizens and companies to foster entrepreneurship and skills; ***fostering cooperation between the space hubs and the digital innovation hubs established under the Digital Europe Programme;***

**Amendment 89**

**Proposal for a regulation**

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

*Text proposed by the Commission*

*Amendment*

***(da) the possible development of a ‘first contract approach strategy’ with all relevant public and private sector actors to support the development of space start-ups;***

**Amendment 90**

**Proposal for a regulation**

**Article 6 – paragraph 1 – point d b (new)**

*Text proposed by the Commission*

*Amendment*

***(db) Synergies with the transport, space and digital sectors in order to foster the broader use of new technologies (such as e-call, digital tachograph, traffic supervisions and management, autonomous driving, unmanned vehicles and drones) and tackle the needs of secure and seamless connectivity, robust positioning, inter modality and interoperability, thus enhancing the competitiveness of transport services and***

*industry;*

## **Amendment 91**

### **Proposal for a regulation**

#### **Article 6 – paragraph 1 – point e**

*Text proposed by the Commission*

(e) provision of education and training activities;

*Amendment*

(e) provision of education and training activities ***in order to develop advanced space skills;***

## **Amendment 92**

### **Proposal for a regulation**

#### **Article 6 – paragraph 1 – point f**

*Text proposed by the Commission*

(f) access to processing and testing facilities;

*Amendment*

(f) access to processing and testing facilities ***for private and public sector professionals, students and entrepreneurs;***

## **Amendment 93**

### **Proposal for a regulation**

#### **Article 7 – paragraph 2 – point c**

*Text proposed by the Commission*

(c) does not confer to the third country or international organisation a decisional power on the programme;

*Amendment*

(c) does not confer to the third country or international organisation a decisional power on the programme ***or, where appropriate, access to sensitive or classified information;***

## **Amendment 94**

### **Proposal for a regulation**

#### **Article 7 – paragraph 2 – point d a (new)**



*(da) preserves, where appropriate, the strategic and sovereign interests of the Union in all relevant areas, including European technological or industrial strategic autonomy;*

## **Amendment 95**

### **Proposal for a regulation Article 9 – paragraph 3**

*Text proposed by the Commission*

3. The Commission shall take the necessary steps to ensure that the contracts, agreements or other arrangements relating to the activities referred to in the *first* paragraph contain provisions setting out the appropriate ownership regime for those assets and, as regards point (c) that the Union can freely use the PRS receivers in accordance with Decision 1104/2011/EU.

*Amendment*

3. The Commission shall take the necessary steps to ensure that the contracts, agreements or other arrangements relating to the activities referred to in the *second* paragraph contain provisions setting out the appropriate ownership *and use* regime for those assets and, as regards point (c) that the Union can freely use *and grant the use of* the PRS receivers in accordance with Decision 1104/2011/EU.

## **Amendment 96**

### **Proposal for a regulation Article 10 – paragraph 1**

*Text proposed by the Commission*

The services, data and information provided by the Programme's components shall be provided without any express or implied guarantee as regards their quality, accuracy, availability, reliability, speed and suitability for any purpose. To that aim, the Commission shall take the necessary steps to ensure that the users of those services, data and information are informed, in an appropriate manner, of the absence of any such guarantee.

*Amendment*

The services, data and information provided by the Programme's components shall be provided without any express or implied guarantee as regards their quality, accuracy, availability, reliability, speed and suitability for any purpose, *unless such a guarantee is required by applicable Union law for the provision of the services concerned*. To that aim, the Commission shall take the necessary steps to ensure that the users of those services, data and information are informed, in an appropriate manner, of the absence of any such

guarantee.

## **Amendment 97**

### **Proposal for a regulation**

#### **Article 11 – paragraph 1 – subparagraph 1**

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

The financial envelope for the implementation of the Programme for the period 2021 – 2027 shall be EUR [16] billion in current prices.

##### *Amendment*

The financial envelope for the implementation of the Programme for the period 2021 – 2027 shall be EUR [16,9] billion in current prices.

## **Amendment 98**

### **Proposal for a regulation**

#### **Article 11 – paragraph 1 – subparagraph 2 – point b**

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

(b) for Copernicus: EUR [5,8] billion;

##### *Amendment*

(b) for Copernicus: EUR [6] billion;

## **Amendment 99**

### **Proposal for a regulation**

#### **Article 11 – paragraph 1 – subparagraph 2 – point c**

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

(c) for SSA/GOVSATCOM: EUR [0,5] billion.

##### *Amendment*

(c) for SSA/GOVSATCOM: EUR [1,2] billion.

## **Amendment 100**

### **Proposal for a regulation**

#### **Article 11 – paragraph 2**

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

2. Cross-cutting activities as foreseen by **Article 3** shall be financed under the Programme's components.

##### *Amendment*

2. Cross-cutting activities as foreseen by **Articles 3, 5 and 6** shall be financed under the Programme's components.

## Amendment 101

### Proposal for a regulation

#### Article 14 – paragraph 1 – point a

*Text proposed by the Commission*

(a) to promote *in all Member States*, throughout the supply chain, the widest and most open participation possible of start-ups, new entrants and small and medium sized enterprises *and other economic operators*, including the requirement of sub-contracting by the tenderers;

*Amendment*

(a) to promote *throughout the Union and* throughout the supply chain, the widest and most open participation possible of *all economic operators, and in particular* start-ups, new entrants and small and medium sized enterprises, including the requirement of sub-contracting by the tenderers;

## Amendment 102

### Proposal for a regulation

#### Article 14 – paragraph 1 – point d

*Text proposed by the Commission*

(d) to foster the autonomy of the Union, in particular in technological terms;

*Amendment*

(d) to foster the *strategic* autonomy of the Union, in particular in *industrial and* technological terms, *throughout the entire value chain*;

## Amendment 103

### Proposal for a regulation

#### Article 14 – paragraph 1 – point d a (new)

*Text proposed by the Commission*

*Amendment*

*(da) to follow the principles of open access and fair competition throughout the industrial supply chain, tendering on the basis of the provision of transparent and timely information, clear communication of the applicable procurement rules, selection and award criteria and any other relevant information allowing a level-playing field for all potential bidders;*

## Amendment 104

### Proposal for a regulation Article 17 – paragraph 1

#### *Text proposed by the Commission*

1. To encourage new entrants, small and medium enterprises and start-ups, and to offer the widest possible geographic coverage while protecting the Union's strategic autonomy, the contracting authority **may** request **that** the tenderer subcontract part of the contract by competitive tendering at the appropriate levels of subcontracting to companies other than those which belong to the tenderer's group.

#### *Amendment*

1. To encourage new entrants, **in particular** small and medium-sized enterprises and start-ups, and to offer the widest possible geographic coverage while protecting the Union's strategic autonomy, the contracting authority **shall endeavour to** request the tenderer **to** subcontract part of the contract by competitive tendering at the appropriate levels of subcontracting to companies other than those which belong to the tenderer's group.

## Amendment 105

### Proposal for a regulation Article 17 – paragraph 2

#### *Text proposed by the Commission*

2. The contracting authority shall express the requisite share of the contract to be subcontracted in the form of a range from a minimum to a maximum percentage.

#### *Amendment*

2. The contracting authority shall express the requisite share of the contract to be subcontracted **to industry at all levels, pursuant to paragraph 1**, in the form of a range from a minimum to a maximum percentage.

## Amendment 106

### Proposal for a regulation Article 17 – paragraph 3

#### *Text proposed by the Commission*

3. Any derogation from a request in accordance with paragraph 1 shall be justified by the tenderer.

#### *Amendment*

3. Any derogation from a request in accordance with paragraph 1 shall be justified by the tenderer **and assessed by the contracting authority**.

## Amendment 107

### Proposal for a regulation Article 19 – paragraph 2

#### *Text proposed by the Commission*

In the case of a joint call, joint procedures shall be established for selection and evaluation of proposals. The procedures **must** involve a balanced group of experts appointed by each party.

#### *Amendment*

In the case of a joint call, joint procedures shall be established for selection and evaluation of proposals. The procedures **shall** involve a balanced group of experts appointed by each party. ***Such experts shall not evaluate, advise or assist on matters in relation to which they have a conflict of interests.***

## Amendment 108

### Proposal for a regulation Article 24 – paragraph 1

#### *Text proposed by the Commission*

1. In addition to the provisions of [Article 165] of the Financial Regulation, the Commission **and** the Agency may carry out joint procurement procedures with the European Space Agency or other international organisations involved in implementing the components of the Programme.

#### *Amendment*

1. In addition to the provisions of [Article 165] of the Financial Regulation, the Commission **or** the Agency may carry out joint procurement procedures with the European Space Agency or other international organisations involved in implementing the components of the Programme.

## Amendment 109

### Proposal for a regulation Article 25 – paragraph 1

#### *Text proposed by the Commission*

Where necessary for the protection of the essential security interest of the Union and its Member States, in particular with regard to the need to preserve the integrity and resilience of the Union systems, as well as the autonomy of the industrial basis on which they rely, the Commission shall set the requisite eligibility conditions

#### *Amendment*

Where necessary for the protection of the essential security interest of the Union and its Member States, in particular with regard to the need to preserve the integrity and resilience of the Union systems, as well as the autonomy of the industrial basis on which they rely, the Commission shall set the requisite eligibility conditions

applicable to the procurement, grants or prizes covered by this Title. Particular regard shall be had, for that purpose, to the need for eligible undertakings to be established in a Member State, to commit to carry out any relevant activities inside the Union ***and to be effectively controlled by Member States or nationals of Member States***. Those conditions shall be included in the documents relating to the procurement, grant or prize, as applicable. In the case of procurement, the conditions shall apply to the full life cycle of the resulting contract.

applicable to the procurement, grants or prizes covered by this Title. Particular regard shall be had, for that purpose, to the need for eligible undertakings to be established in a Member State, to commit to carry out any relevant activities inside the Union. Those conditions shall be included in the documents relating to the procurement, grant or prize, as applicable. In the case of procurement, the conditions shall apply to the full life cycle of the resulting contract.

## Amendment 110

### Proposal for a regulation

#### Article 27 – paragraph 1 – point a

*Text proposed by the Commission*

(a) strict distribution of tasks and responsibilities between the entities involved in the implementation of the Programme, in particular between the Member States, the Commission, the Agency and the European Space Agency;

*Amendment*

(a) strict distribution of tasks and responsibilities between the entities involved in the implementation of the Programme, in particular between the Member States, the Commission, the Agency and the European Space Agency, ***based on each entity's competences, improving transparency, effectiveness and cost-efficiency and avoidance of overlap of activities;***

## Amendment 111

### Proposal for a regulation

#### Article 27 – paragraph 1 – point b

*Text proposed by the Commission*

(b) strong control of the Programme, including strict adherence to cost and ***schedule*** by all the entities, within their respective fields of ***competence*** in accordance with this Regulation;

*Amendment*

(b) strong control of the Programme, including strict adherence to cost and ***technical performance*** by all the entities, within their respective fields of ***responsibility*** in accordance with this Regulation;

## Amendment 112

### Proposal for a regulation

#### Article 27 – paragraph 1 – point d

*Text proposed by the Commission*

(d) systematic consideration of the needs of users of the services provided by the Programme's components, as well as of scientific and technological evolutions relating to those services;

*Amendment*

(d) systematic consideration of the needs of users of the services provided by the Programme's components, as well as of scientific and technological evolutions relating to those services, ***also through the consultation of the advisory User Fora at national and Union level;***

## Amendment 113

### Proposal for a regulation

#### Article 28 – paragraph 2

*Text proposed by the Commission*

2. The Commission or, for the tasks referred to in Article 30, the Agency may entrust specific tasks to Member States or ***national agencies or*** to groups of these Member States ***or national agencies***. The Member States shall take all the necessary measures to ensure the smooth functioning of the Programme and the promotion of their use, including by helping to protect the frequencies required for this programme.

*Amendment*

2. The Commission or, for the tasks referred to in Article 30, the Agency may entrust specific tasks to Member States or to groups of these Member States, ***subject to specific case-by-case agreement***. The Member States shall take all the necessary measures to ensure the smooth functioning of the Programme and the promotion of their use, including by helping to protect the frequencies required for this programme ***at an adequate level***.

## Amendment 114

### Proposal for a regulation

#### Article 28 – paragraph 2 a (new)

*Text proposed by the Commission*

*Amendment*

***2a. The Member States shall pursue a proactive and coordinated consultation of end-users' communities, in particular regarding Galileo, EGNOS and***

## **Amendment 115**

### **Proposal for a regulation Article 29 – paragraph 1**

#### *Text proposed by the Commission*

1. The Commission shall have overall responsibility for the implementation of the Programme, ***including*** in the field of security. It shall, in accordance with this Regulation, determine the priorities and long-term evolution of the Programme and shall supervise its implementation, having due regard to its impact on other policies of the Union.

#### *Amendment*

1. The Commission shall have overall responsibility for the implementation of the Programme ***and the responsibility*** in the field of security ***for the components of the Programme not entrusted to the Agency pursuant to Article 30.*** It shall, in accordance with this Regulation, determine the priorities and long-term evolution of the Programme and shall supervise its implementation, having due regard to its impact on other policies of the Union.

## **Amendment 116**

### **Proposal for a regulation Article 29 – paragraph 2**

#### *Text proposed by the Commission*

2. The Commission shall manage the component of the Programme where such management is not entrusted to ***another entity***.

#### *Amendment*

2. The Commission shall manage the component of the Programme where such management is not entrusted to ***other entities referred to in Articles 30, 31 and 32.***

## **Amendment 117**

### **Proposal for a regulation Article 29 – paragraph 3**

#### *Text proposed by the Commission*

3. The Commission shall ensure a clear division of tasks between the various entities involved in the Programme and

#### *Amendment*

3. The Commission shall ensure a clear division of tasks between the various entities involved in the Programme and



coordinate the activities of those entities.

coordinate the activities of those entities  
*and shall ensure the full protection of the interest of the Union, the sound management of its funds and the application of its rules, in particular those related to procurement. Therefore the Commission shall conclude with the Agency and the European Space Agency a Financial Framework Partnership agreement, related to the tasks entrusted to the two entities, as referred to in Article 31a.*

## Amendment 118

### Proposal for a regulation

#### Article 29 – paragraph 3 a (new)

*Text proposed by the Commission*

*Amendment*

**3a.** *Concerning the specific provision on the functioning and the governance of space weather and NEO functions, and GOVSATCOM, the Commission shall adopt delegated acts, in accordance with Article 105.*

## Amendment 119

### Proposal for a regulation

#### Article 29 – paragraph 4 – subparagraph 1

*Text proposed by the Commission*

*Amendment*

When necessary for the smooth functioning of the Programme and the smooth provision of the services provided by the Programme's components, the Commission shall, by means of *implementing* acts, determine the *technical and operational specifications required* for the implementation of and evolution of those components and of the services they provide after having consulted users and all the other relevant stakeholders. When determining those *technical and*

When necessary for the smooth functioning of the Programme and the smooth provision of the services provided by the Programme's components, the Commission shall, by means of *delegated* acts, determine the *high-level requirements* for the implementation of and evolution of those components and of the services they provide after having consulted users and all the other relevant stakeholders, *including the downstream sector*. When determining those *high-level requirements*, the

*operational specifications*, the Commission shall avoid reducing the general security level and to meet a backward compatibility imperative.

Commission shall avoid reducing the general security level and to meet a backward compatibility imperative.

#### Amendment 120

##### Proposal for a regulation

##### Article 29 – paragraph 4 – subparagraph 2

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

Those *implementing* acts shall be adopted in accordance with *the examination procedure referred to in* Article 107(3).

###### *Amendment*

Those *delegated* acts shall be adopted in accordance with Article 21.

#### Amendment 121

##### Proposal for a regulation

##### Article 29 – paragraph 5

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

5. The Commission *shall promote and ensure the uptake and use of the data and services provided by the Programme's components in the public and private sectors, including by supporting appropriate development of those services and by fostering a stable long-term environment. It shall develop synergies between the applications of the various components of the Programme.* It shall ensure complementarity, consistency, synergies and links between the Programme and other Union actions and programmes.

###### *Amendment*

5. The Commission shall ensure complementarity, consistency, synergies and links between the Programme and other Union actions and programmes. *It shall, in close cooperation with the Agency and, where applicable, the European Space Agency and the Copernicus entrusted entities support and contribute to:*

- the activities relating to the uptake and use of the data and services provided by the Programme's components in the public and private sectors;*
- the development of synergies between the applications;*
- the appropriate development of those services;*

*- fostering a stable long-term environment.*

## **Amendment 122**

### **Proposal for a regulation**

#### **Article 29 – paragraph 6**

*Text proposed by the Commission*

6. Where appropriate, it shall ensure the coordination with activities carried out in the space sector at Union, national and international level. It shall encourage cooperation between the Member States and promote convergence of their technological capacities and developments in the space domain.

*Amendment*

6. Where appropriate ***and in cooperation with the Agency and the European Space Agency***, it shall ensure the coordination with activities carried out in the space sector at Union, national and international level. It shall encourage cooperation between the Member States and promote convergence of their technological capacities and developments in the space domain.

## **Amendment 123**

### **Proposal for a regulation**

#### **Article 30 – paragraph 1 – point b a (new)**

*Text proposed by the Commission*

*Amendment*

***(ba) promote and ensure the uptake and use of the data and services provided by the Programme's components, including the development of downstream applications and services based on the Programme's components;***

## **Amendment 124**

### **Proposal for a regulation**

#### **Article 30 – paragraph 1 – point b b (new)**

*Text proposed by the Commission*

*Amendment*

***(bb) implement actions in support of an innovative Union Space Sector in accordance with Article 6;***

## Amendment 125

### Proposal for a regulation

#### Article 30 – paragraph 1 – point b c (new)

*Text proposed by the Commission*

*Amendment*

***(b c) support access to finance through the financial instruments under Title III and InvestEU, as well as, in cooperation with EIB, through the financial instruments established by the latter addressing in particular SMEs;***

## Amendment 126

### Proposal for a regulation

#### Article 30 – paragraph 1 – point c

*Text proposed by the Commission*

*Amendment*

(c) undertake communication and promotion activities, and activities relating to the commercialisation of the services offered by Galileo ***and*** EGNOS;

(c) undertake communication and promotion activities, and activities relating to the commercialisation of the services offered ***in particular*** by Galileo, EGNOS, ***and Copernicus***;

## Amendment 127

### Proposal for a regulation

#### Article 30 – paragraph 1 – point c a (new)

*Text proposed by the Commission*

*Amendment*

***(ca) as regards Galileo and EGNOS: managing Galileo and EGNOS, as referred to in Article 43;***

## Amendment 128

### Proposal for a regulation

#### Article 30 – paragraph 1 – point d

*Text proposed by the Commission*

*Amendment*

(d) provide technical expertise to the Commission.

(d) provide technical expertise to the Commission, ***avoiding duplication with ESA tasks under Article 27 and 31.***

**Amendment 129**

**Proposal for a regulation**

**Article 30 – paragraph 2 – point a**

*Text proposed by the Commission*

*Amendment*

(a) ***managing the exploitation of EGNOS and Galileo, as referred to in Article 43;***

***deleted***

**Amendment 130**

**Proposal for a regulation**

**Article 30 – paragraph 2 – point b a (new)**

*Text proposed by the Commission*

*Amendment*

***(ba) provide recommendations to the Commission on the priorities of space domain in Horizon Europe and participate in its implementation;***

**Amendment 131**

**Proposal for a regulation**

**Article 30 – paragraph 2 – point c**

*Text proposed by the Commission*

*Amendment*

(c) ***implementing activities relating to the development of downstream applications and services based on the components of the Programme.***

***deleted***

**Amendment 132**

**Proposal for a regulation**  
**Article 30 – paragraph 3**

*Text proposed by the Commission*

3. The Commission may entrust other tasks to the Agency, ***including undertaking communication, promotion, and marketing of data and information activities, as well as other activities related to user uptakes with regard to the Programme's components other than Galileo and EGNOS.***

*Amendment*

3. The Commission may entrust other tasks to the Agency, ***avoiding duplication and on the basis of improved efficiency in the implementation of the Programme's objectives.***

**Amendment 133**

**Proposal for a regulation**  
**Article 30 – paragraph 3 a (new)**

*Text proposed by the Commission*

*Amendment*

***3a. The Agency may sign partnership agreements or other agreements with national space agencies, a group of national space agencies or other entities for the purpose of fulfilment of its tasks.***

**Amendment 134**

**Proposal for a regulation**  
**Article 30 – paragraph 4**

*Text proposed by the Commission*

*Amendment*

4. The tasks referred to in paragraphs 2 and 3 shall be entrusted by the Commission by means of a contribution agreement in accordance with [Article 2(18)] and [Title VI] of the Financial Regulation.

4. The tasks referred to in paragraphs 2 and 3 shall be entrusted by the Commission by means of a contribution agreement in accordance with [Article 2(18)] and [Title VI] of the Financial Regulation ***and shall be reviewed in accordance with Article 102(6) of this Regulation, in particular regarding the Copernicus component.***

## Amendment 135

### Proposal for a regulation

#### Article 30 – paragraph 4 a (new)

*Text proposed by the Commission*

*Amendment*

**4a. Whenever entrusting tasks to the Agency the Commission shall ensure appropriate funding for their management and execution including adequate human and administrative resources.**

## Amendment 136

### Proposal for a regulation

#### Article 31 – paragraph 1 – point a

*Text proposed by the Commission*

*Amendment*

(a) as regards Copernicus: development, design and construction of the Copernicus space infrastructure, including the operations of that infrastructure;

(a) as regards Copernicus: development, design and construction of the Copernicus space **and ground** infrastructure, including the operations of that infrastructure;

## Amendment 137

### Proposal for a regulation

#### Article 31 – paragraph 1 – point b

*Text proposed by the Commission*

*Amendment*

(b) as regards Galileo and EGNOS: systems evolution, **development of the ground segment and the** design and development of **satellites**;

(b) as regards Galileo and EGNOS: **support to the Agency in the execution of its core tasks. When provided for in specific agreements concluded between the Agency and the European Space Agency, procurement in the name and on behalf of the Agency of** systems evolution, design and development of the ground segment and the design and development of **the space segment**;

## Amendment 138

### Proposal for a regulation

#### Article 31 – paragraph 1 – point c

*Text proposed by the Commission*

(c) as regards all the components of the Programme with research and development activities *in its fields of expertise*.

*Amendment*

(c) as regards all the components of the Programme with research and development activities ***concerning the Programme components infrastructures***.

## Amendment 139

### Proposal for a regulation

#### Article 31 – paragraph 1 – point c a (new)

*Text proposed by the Commission*

*Amendment*

***(ca) encouragement of the cooperation between the Member States and promotion of the convergence of their technological capacities and developments in the space segment.***

## Amendment 140

### Proposal for a regulation

#### Article 31 – paragraph 2

*Text proposed by the Commission*

*Amendment*

***2. The Commission shall conclude with the Agency and the European Space Agency a financial framework partnership agreement as provided for in [Article 130] of the Financial Regulation. That financial framework partnership agreement shall:***

***deleted***

- clearly define the responsibilities and obligations of the European Space Agency with regard to the Programme;***
- require that the European Space Agency complies with the security rules of the Union programme, in particular with regard to the processing of classified***



*information;*

- stipulate the conditions of the management of funds entrusted to the European Space Agency, particularly with regard to public procurement, management procedures, the expected results measured by performance indicators, applicable measures in the event of deficient or fraudulent implementation of the contracts in terms of costs, schedule and results, as well as the communication strategy and the rules regarding ownership of all tangible and intangible assets; these conditions shall be in conformity with Titles III and V of this regulation and the Financial Regulation;*
- require the participation of the Commission and, when relevant, the Agency in the Tender Evaluation Board meetings of the European Space Agency with regard to the Programme;*
- establish the monitoring and control measures, which shall include, in particular, a cost forecast system, the systematic provision of information to the Commission or, where appropriate, to the Agency, on costs and schedule, and in the event of a discrepancy between the planned budgets, performance and schedule, corrective action ensuring performance of the tasks assigned within the limits of the allocated budgets and penalties against the European Space Agency where this discrepancy is directly attributable to it;*
- establish the principles for the remuneration of the European Space Agency, which shall be proportionate to the difficulty of the tasks to be carried out, in line with market prices and the fees of the other entities involved, including the Union, and may, where appropriate, be based on performance indicators; those fees shall not cover general overheads which are not associated with the activities entrusted to the European Space Agency by the Union.*

## **Amendment 141**

### **Proposal for a regulation Article 31 – paragraph 3**

*Text proposed by the Commission*

*Amendment*

**3.**     *The conclusion of the financial framework partnership agreement referred to in paragraph 2 shall be contingent upon the establishment, within the European Space Agency, of internal structures and of an operational method, in particular for decision-making, management methods and liability, which make it possible to ensure maximum protection for the interests of the Union and to comply with its decisions, including for the activities financed by the European Space Agency, which have an impact on the Programme.*     **deleted**

## **Amendment 142**

### **Proposal for a regulation Article 31 – paragraph 4**

*Text proposed by the Commission*

*Amendment*

**4.**     *Without prejudice to the financial framework partnership agreement referred to in paragraph 4, the Commission or the Agency may ask the European Space Agency to provide technical expertise and the information necessary to perform the tasks which are assigned to them by this Regulation.*     **deleted**

## **Amendment 143**

### **Proposal for a regulation Article 31 a (new)**

**Article 31 a**

***The financial framework partnership agreement***

***1. The Commission shall conclude with the Agency and the European Space Agency a financial framework partnership agreement as provided for in [Article 130] of the Financial Regulation. That financial framework partnership agreement shall:***

***(a) clearly define the roles, responsibilities and obligations of the Commission, the Agency and the European Space Agency with regard to the Programme;***

***(b) clearly define the instruments of coordination and control for the implementation of the Programme components, taking into consideration the Commission's roles and responsibilities to carry out overall coordination of the Programme components;***

***(c) require that the European Space Agency comply with the security rules of the Union programme, in particular with regard to the processing of classified information;***

***(d) stipulate the conditions of the management of funds entrusted to the European Space Agency, including the application of Union public procurement rules, when procuring in the name and on behalf of the Union, management procedures, the expected results measured by performance indicators, applicable measures in the event of deficient or fraudulent implementation of the contracts in terms of costs, schedule and results, as well as the communication strategy and the rules regarding ownership of all tangible and intangible assets; these conditions shall be in conformity with Titles III and V of this Regulation and with the Financial***

***Regulation;***

***(e) require the participation of the Commission and, when relevant, the Agency in the Tender Evaluation Board meetings of the European Space Agency with regard to the Programme, where the latter procures in the name and on behalf of the Union pursuant to paragraph 1a;***

***(f) establish the monitoring and control measures, which shall include, in particular, a cost forecast system, the systematic provision of information to the Commission or, where appropriate, to the Agency, on costs and schedule, and in the event of a discrepancy between the planned budgets, performance and schedule, corrective action ensuring performance of the tasks assigned within the limits of the allocated budgets and penalties against the European Space Agency where this discrepancy is directly attributable to it;***

***(g) establish the principles for the remuneration of the European Space Agency, taking into consideration its cost model as a public entity, which shall be proportionate to the difficulty of the tasks to be carried out, in line with market prices and the fees of the other entities involved, including the Union, and may, where appropriate, be based on performance indicators; those fees shall not cover general overheads which are not associated with the activities entrusted to the European Space Agency by the Union;***

***(h) require that the European Space Agency ensures full protection of the interests of the Union and its decisions, which may also lead to the European Space Agency having to adapt its decision-making, management methods and liability provisions.***

***2. Without prejudice to the financial framework partnership agreement referred to in Article 31a, the Commission or the Agency may ask the European***

*Space Agency to provide technical expertise and the information necessary to perform the tasks which are assigned to them by this Regulation. The conditions for such requests and their implementation shall be mutually agreed.*

#### **Amendment 144**

##### **Proposal for a regulation Article 32 – title**

*Text proposed by the Commission*

Role of other entities

*Amendment*

Role of **EUMETSAT and** other entities

#### **Amendment 145**

##### **Proposal for a regulation Article 32 – paragraph 1 – introductory part**

*Text proposed by the Commission*

1. The Commission may entrust, in full or in part, by means of contribution agreements the implementation of the **Programme's components** to entities other than those referred to in Article 30 and 31, including :

*Amendment*

1. The Commission may entrust, in full or in part, by means of contribution agreements, the implementation of the **following tasks** to entities other than those referred to in Article 30 and 31, including :

#### **Amendment 146**

##### **Proposal for a regulation Article 32 – paragraph 1 – point a**

*Text proposed by the Commission*

(a) the operation of the Copernicus space infrastructure or parts thereof, which may be entrusted EUMETSAT;

*Amendment*

(a) the **upgrading and** operation of the Copernicus space infrastructure or parts thereof, which may be entrusted EUMETSAT;

#### **Amendment 147**

**Proposal for a regulation**  
**Article 32 – paragraph 1 – point b**

*Text proposed by the Commission*

(b) the implementation of the Copernicus services or parts thereof to relevant agencies, bodies or organisations.

*Amendment*

(b) the implementation of the Copernicus services or parts thereof to relevant agencies, bodies or organisations, ***managing also the relevant third party information acquisition.***

**Amendment 148**

**Proposal for a regulation**  
**Article 32 – paragraph 2 a (new)**

*Text proposed by the Commission*

*Amendment*

***2a. The Commission shall take account of the scientific and technical advice of the Joint Research Centre for the implementation of the Programme.***

**Amendment 149**

**Proposal for a regulation**  
**Article 33 – paragraph 1 – introductory part**

*Text proposed by the Commission*

*Amendment*

The security of the Programme ***should*** be based on the following principles:

The security of the Programme ***shall*** be based on the following principles:

**Amendment 150**

**Proposal for a regulation**  
**Article 33 – paragraph 1 – point a**

*Text proposed by the Commission*

*Amendment*

(a) to take account of the experience of the Member States in the field of security and draw inspiration from their best practices;

(a) to take account of the experience of the Member States in the field of security and draw inspiration from their best practices ***and national laws;***

## Amendment 151

### Proposal for a regulation

#### Article 33 – paragraph 1 – point a a (new)

*Text proposed by the Commission*

*Amendment*

**(aa) to take account of the experience gained in the operation of Galileo, EGNOS and Copernicus;**

## Amendment 152

### Proposal for a regulation

#### Article 34 – paragraph 1 – subparagraph 1 – introductory part

*Text proposed by the Commission*

*Amendment*

The Commission, in *its* field of competence, shall ensure a high degree of security with regard to, in particular:

The Commission **and the Agency**, in **their** field of competence, shall ensure a high degree of security with regard to, in particular:

## Amendment 153

### Proposal for a regulation

#### Article 34 – paragraph 1 – subparagraph 2

*Text proposed by the Commission*

*Amendment*

To that end, the Commission shall **ensure that** a risk and threat analysis **is performed for each Programme's component**. Based on that risk and threat analysis, **it** shall determine, by means of implementing acts, for each component of the Programme, the general security requirements. In doing so, the Commission shall take account of the impact of those requirements on the smooth functioning of that component, in particular in terms of cost, risk management and schedule, and shall ensure not to reduce the general level of security or undermine the functioning of the existing equipment based on that component. Those implementing acts shall be adopted in accordance with the

To that end, the Commission shall **carry out in consultation with end users in Member States and the relevant entities managing the implementation of a component of the Programme** a risk and threat analysis **for the Copernicus, SST and GOVSATCOM components. The Agency shall carry out a risk and threat analysis for the Galileo and EGNOS components**. Based on that risk and threat analysis, **the Commission in consultation with end users in Member States and the relevant entities managing the implementation of a component of the Programme** shall determine, by means of implementing acts, for each component of the Programme, the general security

examination procedure referred to in Article 107(3).

requirements. In doing so, the Commission shall take account of the impact of those requirements on the smooth functioning of that component, in particular in terms of cost, risk management and schedule, and shall ensure not to reduce the general level of security or undermine the functioning of the existing equipment based on that component. ***The general security requirements shall set out the procedures to be followed whenever the security of the Union or its Member States may be affected by the operation of a component.*** Those implementing acts shall be adopted in accordance with the examination procedure referred to in Article 107(3).

#### Amendment 154

##### Proposal for a regulation Article 34 – paragraph 2

*Text proposed by the Commission*

2. The *entity* responsible for ***the management of a component*** of the ***Programme*** shall be responsible for managing the security of ***that component and shall***, to that end, carry out ***risk and threat analysis and*** all the necessary activities to ensure and monitor the security of ***that component***, in particular setting of technical specifications and operational procedures, and monitor their compliance with the general security requirements referred to in paragraph 1.

*Amendment*

2. The ***Commission shall be*** responsible for ***managing the security*** of the ***Copernicus, SSA and GOVSATCOM components. The Agency*** shall be responsible for managing the security of ***the Galileo and EGNOS components***. To that end, ***they shall*** carry out all the necessary activities to ensure and monitor the security of ***the components for which they are responsible***, in particular ***the*** setting of technical specifications and ***shall*** operational procedures, and monitor their compliance with the general security requirements referred to in ***the third subparagraph of*** paragraph 1.

#### Amendment 155

##### Proposal for a regulation Article 34 – paragraph 3 – introductory part



*Text proposed by the Commission*

*Amendment*

3. The Agency shall:

3. The Agency shall ***furthermore***:

#### **Amendment 156**

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

##### **Article 34 – paragraph 3 – point d a (new)**

*Text proposed by the Commission*

*Amendment*

***(da) ensure the cyber security of the Programme;***

#### **Amendment 157**

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

##### **Article 34 – paragraph 4 – point a**

*Text proposed by the Commission*

*Amendment*

(a) take measures which are at least equivalent to those necessary for the protection of European critical infrastructures within the meaning of Council Directive 2008/114/EC of 8 December 2008 on the identification and designation of European critical infrastructures and the assessment of the need to improve their protection<sup>29</sup> and to those necessary for the protection of their own national critical infrastructures in order to ensure the protection of the ground infrastructure ***on the ground*** which form an integral part of the Programme and which are located on their territory;

(a) take measures which are at least equivalent to those necessary for the protection of European critical infrastructures within the meaning of Council Directive 2008/114/EC of 8 December 2008 on the identification and designation of European critical infrastructures and the assessment of the need to improve their protection<sup>29</sup> and to those necessary for the protection of their own national critical infrastructures in order to ensure the protection of the ground infrastructure which form an integral part of the Programme and which are located on their territory;

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<sup>29</sup> OJ L 345, 23.12.2008, p. 75–82.

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<sup>29</sup> OJ L 345, 23.12.2008, p. 75–82.

#### **Amendment 158**

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

##### **Article 34 – paragraph 5**

*Text proposed by the Commission*

5. The entities involved in the Programme shall take all the **measures** necessary to ensure the security of the Programme.

*Amendment*

5. The entities involved in the Programme shall take all the **necessary** measures, **also in light of the issues identified in the risk analysis**, to ensure the security of the Programme.

**Amendment 159**

**Proposal for a regulation  
Article 38 – paragraph 2**

*Text proposed by the Commission*

2. A representative of the European Space Agency shall be invited to attend the meetings of the Security Accreditation Board as an observer. On an exceptional basis, representatives of Union Agencies, third countries or international organisations may also be invited to attend meetings as observers **for matters directly relating to those third countries or international organisations**, especially matters concerning the infrastructure belonging to them or established on their territory. Arrangements for such participation of representatives of third countries or international organisations and the conditions **therefor** shall be laid down in the relevant agreements and shall comply with the rules of procedure of the Security Accreditation Board.

*Amendment*

2. A representative of the European Space Agency shall be invited to attend the meetings of the Security Accreditation Board as an observer. On an exceptional basis, representatives of Union Agencies, third countries or international organisations may also be invited to attend meetings as observers especially **for** matters concerning the infrastructure belonging to them or established on their territory. Arrangements for such participation of representatives of third countries or international organisations and the conditions **therefore** shall be laid down in the relevant agreements and shall comply with the rules of procedure of the Security Accreditation Board.

**Amendment 160**

**Proposal for a regulation  
Article 43 – paragraph 1 – point b**

*Text proposed by the Commission*

(b) the management, maintenance, continuous improvement, evolution and protection of the ground-based infrastructure, in particular networks, sites

*Amendment*

(b) the management, maintenance, continuous improvement, evolution and protection of the ground-based infrastructure, **including infrastructure**

and support facilities, including upgrades and obsolescence management;

*located outside Union territory, but necessary for providing Galileo and EGNOS with full coverage of the territories of Member States geographically located in Europe, in particular networks, sites and support facilities, including upgrades and obsolescence management;*

## **Amendment 161**

### **Proposal for a regulation**

#### **Article 43 – paragraph 1 – point c**

*Text proposed by the Commission*

(c) the development of future generations of the systems and the evolution of the services provided by Galileo and EGNOS, without prejudice to future decisions on the Union financial perspectives;

*Amendment*

(c) the development of future generations of the systems and the evolution of the services provided by Galileo and EGNOS, without prejudice to future decisions on the Union financial perspectives, *taking into account the needs of relevant stakeholders;*

## **Amendment 162**

### **Proposal for a regulation**

#### **Article 43 – paragraph 1 – point c a (new)**

*Text proposed by the Commission*

*Amendment*

*(ca) support the development and evolution of fundamental technological elements, such as Galileo-enabled chipsets and receivers;*

## **Amendment 163**

### **Proposal for a regulation**

#### **Article 43 – paragraph 1 – point c b (new)**

*Text proposed by the Commission*

*Amendment*

*(cb) support for development of Galileo and EGNOS downstream applications*

*and integrated downstream applications using both EGNOS/Galileo and Copernicus;*

#### Amendment 164

##### Proposal for a regulation

##### Article 43 – paragraph 1 – point e

*Text proposed by the Commission*

(e) the provision and market development of the services provided by Galileo and EGNOS;

*Amendment*

(e) the provision and market development of the services provided by Galileo and EGNOS, *in particular, in order to maximise the socio-economic benefits referred to in Article 4(1);*

#### Amendment 165

##### Proposal for a regulation

##### Article 45 – paragraph 1 – point c

*Text proposed by the Commission*

(c) a safety-of-life (SoL) service, which shall be free of direct user charges and shall provide positioning and synchronisation information with a high level of continuity, availability *and* accuracy, including an integrity message alerting users to any failure in, or out-of-tolerance signals emitted by, Galileo and other GNSSs which it augments in the coverage area, intended mainly for users for whom safety is essential, in particular in the sector of civil aviation for the purpose of air navigation services.

*Amendment*

(c) a safety-of-life (SoL) service, which shall be free of direct user charges and shall provide positioning and *time* synchronisation information with a high level of continuity, availability, accuracy *and integrity. That service is provided in compliance with the EASA Regulation to ensure aviation safety requirements are met*, including an integrity message alerting users to any failure in, or out-of-tolerance signals emitted by, Galileo and other GNSSs which it augments in the coverage area, intended mainly for users for whom safety is essential, in particular in the sector of civil aviation for the purpose of air navigation services.

#### Amendment 166

##### Proposal for a regulation

##### Article 45 – paragraph 2 – subparagraph 1

*Text proposed by the Commission*

The services referred to in paragraph 1 shall be provided as a priority on the territory of Member States geographically located in Europe.

*Amendment*

The services referred to in paragraph 1 shall be provided as a priority on the territory of Member States geographically located in Europe ***with the aim of covering the continental territories by the end of 2023 and all territories by the end of 2025.***

**Amendment 167**

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

*Text proposed by the Commission*

3. The cost of such extension, including the related operating costs specific to these regions, shall not be covered by the budget referred to in Article 11. Such extension shall not delay the offering of the services referred to in paragraph 1 throughout the territory of Member States geographically located in Europe.

*Amendment*

3. The cost of such extension, including the related operating costs specific to these regions, shall not be covered by the budget referred to in Article 11, ***but the Commission shall consider the exploitation of partnership programmes and agreements and, if appropriate, the development of a specific financial instrument to support them.*** Such extension shall not delay the offering of the services referred to in paragraph 1 throughout the territory of Member States geographically located in Europe.

**Amendment 168**

**Proposal for a regulation  
Article 47 – title**

*Text proposed by the Commission*

Compatibility ***and*** interoperability

*Amendment*

Compatibility, interoperability ***and standardisation***

**Amendment 169**

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

*Text proposed by the Commission*

2. Galileo and EGNOS, and the services which they provide, shall be compatible and interoperable with other satellite navigation systems and with conventional means of radio navigation, where the necessary compatibility and interoperability requirements are laid down in international agreements.

*Amendment*

2. Galileo and EGNOS, and the services which they provide, shall be ***mutually*** compatible and interoperable with other satellite navigation systems and with conventional means of radio navigation, where the necessary compatibility and interoperability requirements are laid down in international agreements.

**Amendment 170**

**Proposal for a regulation**

**Article 47 – paragraph 2 a (new)**

*Text proposed by the Commission*

*Amendment*

***2a. Galileo and EGNOS shall strive to comply with international standards and certifications.***

**Amendment 171**

**Proposal for a regulation**

**Article 48 – paragraph 1**

*Text proposed by the Commission*

*Amendment*

1. Copernicus shall be implemented building on prior Union investments and, where appropriate, drawing on the national or regional capacities of Member States and taking into account the capacities of commercial suppliers of comparable data and information and the need to foster competition and market development.

1. Copernicus shall be implemented building on prior Union, ***European Space Agency and EUMETSAT*** investments and, where appropriate, drawing on the national or regional capacities of Member States and taking into account the capacities of commercial suppliers of comparable data and information and the need to foster competition and market development.

**Amendment 172**

**Proposal for a regulation**

**Article 48 – paragraph 2**

*Text proposed by the Commission*

2. Copernicus shall deliver data and information ***pursuing*** a full, free and open data policy.

*Amendment*

2. Copernicus shall deliver data and information ***based on*** a full, free and open data policy.

**Amendment 173**

**Proposal for a regulation**

**Article 48 – paragraph 3 – point a – indent 1**

*Text proposed by the Commission*

– the development and operations of the Copernicus ***Sentinels***;

*Amendment*

– the development and operations of the Copernicus ***Sentinel satellites***;

**Amendment 174**

**Proposal for a regulation**

**Article 48 – paragraph 3 – point c**

*Text proposed by the Commission*

(c) data access and distribution component, which shall include infrastructure and services to ensure the discovery, viewing, access to, distribution and exploitation of Copernicus data and Copernicus information;

*Amendment*

(c) data access and distribution component, which shall include infrastructure and services to ensure the discovery, viewing, ***long-term archiving***, access to, distribution and exploitation of Copernicus data and Copernicus information, ***in a user-friendly manner***;

**Amendment 175**

**Proposal for a regulation**

**Article 48 – paragraph 3 – point d**

*Text proposed by the Commission*

(d) user uptake and market development component in accordance with Article 29(5), which shall include relevant activities, resources and services to promote Copernicus, its data and services at all levels to maximise socio-

*Amendment*

(d) user uptake, ***capacity building*** and market development component in accordance with Article 29(5), which shall include relevant activities, resources and services to promote Copernicus, its data and services at all levels to maximise

economic benefits which are referred to in Article 4(1).

socio-economic benefits which are referred to in Article 4(1).

#### **Amendment 176**

##### **Proposal for a regulation Article 48 – paragraph 4**

*Text proposed by the Commission*

4. Copernicus shall promote the international coordination of observation systems and related exchanges of data in order to strengthen its global dimension and complementarity taking account of existing international agreements and coordination processes.

*Amendment*

4. Copernicus shall promote the international coordination of observation systems and related exchanges of data in order to strengthen its global dimension and complementarity taking account of existing ***and future*** international agreements and coordination processes.

#### **Amendment 177**

##### **Proposal for a regulation Article 49 – title**

*Text proposed by the Commission*

***Data acquisition***

*Amendment*

***Eligible actions***

#### **Amendment 178**

##### **Proposal for a regulation Article 49 – paragraph 1 – point a**

*Text proposed by the Commission*

(a) actions to provide continuity of existing Sentinel missions and to develop, launch, maintain and operate further Sentinels expanding the observation scope, ***giving priority to***: observation capacities for monitoring anthropogenic CO<sub>2</sub> and other greenhouse gas emissions, allowing for polar coverage and enabling innovative environmental applications in agriculture, forest and water management domains;

*Amendment*

(a) actions to provide continuity of existing Sentinel missions and to develop, launch, maintain and operate further Sentinels expanding the observation scope, ***such as***: observation capacities for monitoring anthropogenic CO<sub>2</sub> and other greenhouse gas emissions, allowing for polar coverage and enabling innovative environmental applications in agriculture, forest and water management domains;



## Amendment 179

### Proposal for a regulation

#### Article 49 – paragraph 1 – point b

*Text proposed by the Commission*

(b) actions to provide access to third-party data necessary to generate Copernicus services or for use by *the Union's institutions*, agencies *and decentralised services*;

*Amendment*

(b) actions to provide access to third-party data necessary to generate Copernicus services or for use by *core users, giving priority to data provided and/or funded by public entities in Member States, such as national* agencies;

## Amendment 180

### Proposal for a regulation

#### Article 49 – paragraph 1 – point c a (new)

*Text proposed by the Commission*

*Amendment*

*(ca) support for development of relevant Copernicus downstream applications and services.*

## Amendment 181

### Proposal for a regulation

#### Article 50 – paragraph 1 – introductory part

*Text proposed by the Commission*

*Amendment*

Copernicus shall include actions in support of the following services:

Copernicus shall include actions in support of the following *core* services:

## Amendment 182

### Proposal for a regulation

#### Article 50 – paragraph 1 – point a – indent 3

*Text proposed by the Commission*

*Amendment*

– land monitoring and agriculture to provide information on land cover, land use and land use change, *urban areas*,

– land monitoring and agriculture to provide information on land cover, land use and land use change, *soil quality*,

inland water quantity and quality, forests, agriculture and other natural resources, biodiversity and cryosphere;

***desertification, cultural heritage sites, inland water quantity and quality, forests and in particular deforestation, agriculture and other natural resources, biodiversity and cryosphere; Member States will be able to use the information and data resulting from monitoring of the agricultural area regarding the degree of land cover and farmland utilisation, so as to further reduce the administrative burden of granting farm subsidies;***

#### **Amendment 183**

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

##### **Article 50 – paragraph 1 – point a – indent 4 a (new)**

*Text proposed by the Commission*

*Amendment*

– ***mapping farmland in need of irrigation, crop forecasts and land use, and ensuring better food safety and quality by safeguarding the environment;***

#### **Amendment 184**

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

##### **Article 50 – paragraph 1 – point a – indent 4 b (new)**

*Text proposed by the Commission*

*Amendment*

– ***monitoring fishing activities, to ensure better food safety and quality by safeguarding the environment;***

#### **Amendment 185**

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

##### **Article 50 – paragraph 1 – point a a (new)**

*Text proposed by the Commission*

*Amendment*

***(aa) Monitoring support for Union policy implementation;***

## Amendment 186

### Proposal for a regulation

#### Article 53 – paragraph 1 – introductory part

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

The SST component shall support the following activities:

##### *Amendment*

***The SST programme aims at progressively equipping the Union with an autonomous SST capability.***

The SST component shall support the following activities:

## Amendment 187

### Proposal for a regulation

#### Article 53 – paragraph 1 – point a

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

(a) the establishment, development and operation of a network of ground-based and/or space-based sensors of the Member States, including sensors developed through the European Space Agency and nationally operated Union sensors, to survey and track objects and to produce a European catalogue of space objects adapted to the needs of the users referred to in Article 55;

##### *Amendment*

(a) the establishment, development and operation of a network of ground-based and/or space-based sensors of the Member States ***or of the Union***, including sensors developed through the European Space Agency and nationally operated Union sensors, to survey and track objects and to produce a European catalogue of space objects adapted to the needs of the users referred to in Article 55;

## Amendment 188

### Proposal for a regulation

#### Article 56 – paragraph 1 – subparagraph 1 – introductory part

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

Member States wishing to participate in the delivery of SST services referred to in Article 54 shall submit a joint proposal to the Commission demonstrating compliance with the following criteria:

##### *Amendment*

Member States wishing to participate in the delivery of SST services referred to in Article 54 shall submit a ***single or*** joint proposal to the Commission demonstrating compliance with the following criteria:

## Amendment 189

### Proposal for a regulation Article 57 – paragraph 8

*Text proposed by the Commission*

8. The Commission shall adopt, **by implementing acts**, detailed rules on the functioning of the organisational framework of the participation of Member States in SST. Those implementing acts shall be adopted in accordance with the examination procedure referred to in Article 107(3).

*Amendment*

8. The Commission shall adopt ***delegated acts in accordance with Article 105 concerning the specific provision***, detailed rules on the functioning of the organisational framework of the participation of Member States in SST. Those implementing acts shall be adopted in accordance with the examination procedure referred to in Article 107(3).

## Amendment 190

### Proposal for a regulation Article 58 a (new)

*Text proposed by the Commission*

*Amendment*

#### ***Article 58a***

#### ***Monitoring of supply and demand for SST***

***Before 31 December 2024, the Commission shall evaluate the implementation of the SST component, in particular as regards the evolution of the user needs in relation to the ground based and space based sensors capacity, and shall complete the production of the European catalogue provided for in Article 53(1a).***

***The evaluation shall, in particular, examine the need for additional space and ground infrastructures.***

***The evaluation shall be accompanied, if necessary, by an appropriate proposal for the development of additional space and ground infrastructures under the SST component.***

## Amendment 191

### Proposal for a regulation

#### Article 60 – paragraph 1 – point c a (new)

*Text proposed by the Commission*

*Amendment*

*(ca) the creation of a European catalogue of NEO.*

## Amendment 192

### Proposal for a regulation

#### Article 61 – paragraph 1 – introductory part

*Text proposed by the Commission*

*Amendment*

Under the GOVSATCOM component satellite communication capacities and services shall be combined into a common Union pool of satellite communication capacities and services. This component *comprises*:

Under the GOVSATCOM component satellite communication capacities and services shall be combined into a common Union pool of satellite communication capacities and services *with appropriate security requirements*. This component *may comprise*:

## Amendment 193

### Proposal for a regulation

#### Article 61 – paragraph 1 – point a

*Text proposed by the Commission*

*Amendment*

(a) the development, construction, and operations of the ground segment infrastructure;

(a) the development, construction, and operations of the ground *and space* segment infrastructure;

## Amendment 194

### Proposal for a regulation

#### Article 62 – paragraph 3

*Text proposed by the Commission*

*Amendment*

3. The Commission shall adopt, by means of implementing acts, the service

3. The Commission shall adopt, by means of implementing acts, the service

portfolio for services provided under GOVSATCOM, in the form of a list of categories of satellite communication capacities and services and their attributes, including geographic coverage, frequency, bandwidth, user equipment, and security features. Those measures shall be based on the operational and security requirements referred to in paragraph 1 ***and shall prioritise services provided to users at Union level.*** Those implementing acts shall be adopted in accordance with the examination procedure referred to in Article 107(3).

## **Amendment 195**

### **Proposal for a regulation**

#### **Article 62 – paragraph 3 a (new)**

*Text proposed by the Commission*

portfolio for services provided under GOVSATCOM, in the form of a list of categories of satellite communication capacities and services and their attributes, including geographic coverage, frequency, bandwidth, user equipment, and security features. Those measures shall be based on the operational and security requirements referred to in paragraph 1. Those implementing acts shall be adopted in accordance with the examination procedure referred to in Article 107(3).

*Amendment*

***3a. The service portfolio referred to in paragraph 3 shall take into consideration existing commercially available services in order not to distort competition in the internal market.***

## **Amendment 196**

### **Proposal for a regulation**

#### **Article 63 – paragraph 1 – point b**

*Text proposed by the Commission*

(b) legal persons duly accredited to provide satellite capacities or services in accordance with the security accreditation procedure in Article 36, ***based on the specific security requirements for the GOVSATCOM component referred to in Article 34 (1).***

Amendment 197

*Amendment*

(b) legal persons duly accredited to provide satellite capacities or services in accordance with the security accreditation procedure in Article 36.

### **Proposal for a regulation**

#### **Article 63 – paragraph 1 – point b a (new)**

*Text proposed by the Commission*

*Amendment*

**(ba) The providers of satellite communication capacities or services under this component shall comply with the specific security requirements for the GOVSATCOM component determined in accordance with Article 34(1).**

Amendment 198

**Proposal for a regulation  
Article 65 – paragraph 1**

*Text proposed by the Commission*

*Amendment*

1. Pooled satellite communication capacities, services and user equipment shall be shared and prioritised between GOVSATCOM participants on the basis of an analysis of security risks by the users at Union and Member State level. ***This sharing and prioritisation shall prioritise users at Union level.***

1. Pooled satellite communication capacities, services and user equipment shall be shared and prioritised between GOVSATCOM participants on the basis of an analysis of security risks by the users at Union and Member State level.

Amendment 199

**Proposal for a regulation  
Article 66 – paragraph 1 a (new)**

*Text proposed by the Commission*

*Amendment*

***1a. GOVSATCOM Hubs shall take into consideration existing commercially available services existing in order not to distort competition in the internal market.***

**Amendment 200**

**Proposal for a regulation  
Article 69 – paragraph 1**

*Text proposed by the Commission*

*Amendment*

Before the end of 2024, the Commission shall evaluate the implementation of the GOVSATCOM component, notably as regards the evolution of the user needs in

Before the end of 2024, the Commission shall, ***in cooperation with the responsible entities***, evaluate the implementation of the GOVSATCOM component, notably as

relation to the satellite communication capacity. The evaluation shall in particular examine the need for additional space infrastructure. The evaluation shall be accompanied, if necessary, by an appropriate proposal for the development of additional space infrastructure under the GOVSATCOM component.

regards the evolution of the user needs in relation to the satellite communication capacity. The evaluation shall in particular examine the need for additional space infrastructure. The evaluation shall be accompanied, if necessary, by an appropriate proposal for the development of additional space infrastructure under the GOVSATCOM component.

## **Amendment 201**

### **Proposal for a regulation Article 71 – paragraph 1**

#### *Text proposed by the Commission*

The seat of the Agency shall be located in Prague (Czech Republic).

#### *Amendment*

The seat of the Agency shall be located in Prague (Czech Republic). ***In accordance with the needs of the Programme, the Agency's local offices may be established, as laid down in Article 79(2).***

## **Amendment 202**

### **Proposal for a regulation Article 73 – paragraph 4**

#### *Text proposed by the Commission*

4. The members and alternate members of the Administrative Board shall be appointed in light of their knowledge in the field of the Agency's **core** tasks, taking into account relevant managerial, administrative and budgetary skills. The European Parliament, the Commission and the Member States shall endeavour to limit changes of their representatives on the Administrative Board, in order to ensure continuity of the Board's activities. All parties shall aim to achieve a balanced representation between men and women on the Administrative Board.

#### *Amendment*

4. The members and alternate members of the Administrative Board shall be appointed in light of their knowledge in the field of the Agency's tasks, taking into account relevant managerial, administrative and budgetary skills. The European Parliament, the Commission and the Member States shall endeavour to limit changes of their representatives on the Administrative Board, in order to ensure continuity of the Board's activities. All parties shall aim to achieve a balanced representation between men and women on the Administrative Board.



## Amendment 203

### Proposal for a regulation Article 73 – paragraph 5

#### *Text proposed by the Commission*

5. The term of office of the members of the Administrative Board and their ***alternate*** shall be four years, renewable ***once***.

#### *Amendment*

5. The term of office of the members of the Administrative Board and their ***alternates*** shall be four years, renewable.

## Amendment 204

### Proposal for a regulation Article 75 – paragraph 3

#### *Text proposed by the Commission*

3. The Administrative Board shall hold an ordinary meeting twice a year. In addition, it shall meet on the initiative of its Chairperson or at the request of at least one third of its members.

#### *Amendment*

3. The Administrative Board shall hold an ordinary meeting ***at least*** twice a year. In addition, it shall meet on the initiative of its Chairperson or at the request of at least one third of its members.

## Amendment 205

### Proposal for a regulation Article 75 – paragraph 5

#### *Text proposed by the Commission*

5. [For any component of the Programme which entails the use of sensitive national infrastructure, ***only*** the representatives of Member States ***which possess such infrastructure*** and the representative of the Commission may attend the meetings and deliberations of the Administrative Board ***and*** take part in voting. Where the Chairperson of the Administrative Board does not represent one of the Member States which possess such infrastructure, he/she shall be replaced by the representatives of a Member States which possesses such infrastructure.]

#### *Amendment*

5. [For any component of the Programme which entails the use of sensitive national infrastructure, the representatives of Member States and the representative of the Commission may attend the meetings and deliberations of the Administrative Board, ***but only those representatives of Member States which possess such infrastructure are to*** take part in voting. Where the Chairperson of the Administrative Board, does not represent one of the Member States which possess such infrastructure, he/she shall be replaced by the representatives of a Member States which possesses such

infrastructure.]

## **Amendment 206**

### **Proposal for a regulation**

#### **Article 77 – paragraph 2 – point a a (new)**

*Text proposed by the Commission*

*Amendment*

***(aa) adopt, by 30 June of the first year of the multiannual financial framework provided for under Article 312 of the Treaty on the Functioning of the European Union, the multiannual work programme of the Agency for the period covered by that multiannual financial framework after incorporating, without any change, the section drafted by the Security Accreditation Board in accordance with point (a) of Article 80 and after having received the Commission’s opinion. The European Parliament shall be consulted on the multiannual work programme;***

## **Amendment 207**

### **Proposal for a regulation**

#### **Article 77 – paragraph 2 – point d a (new)**

*Text proposed by the Commission*

*Amendment*

***(da) adopt transparency rules on industrial contracts and be regularly informed of them by the Executive Director;***

## **Amendment 208**

### **Proposal for a regulation**

#### **Article 79 – paragraph 1 – point c a (new)**

*Text proposed by the Commission*

*Amendment*

***(ca) comply with the transparency rules***

## Amendment 209

### Proposal for a regulation Article 79 – paragraph 2

#### *Text proposed by the Commission*

2. The Executive Director shall decide whether it is necessary to locate one or more staff in one or more Member States for the purpose of carrying out the Agency's tasks in an efficient and effective manner. Before deciding to establish a local office the Executive Directive shall obtain the prior approval of *the Commission*, the Administrative Board and the Member State(s) concerned. The decision shall specify the scope of the activities to be carried out at the local office in a manner that avoids unnecessary costs and duplication of administrative functions of the Agency. A headquarters agreement with the Member State(s) concerned may be required.

#### *Amendment*

2. The Executive Director shall decide whether it is necessary to locate one or more staff in one or more Member States for the purpose of carrying out the Agency's tasks in an efficient and effective manner. Before deciding to establish a local office the Executive Directive shall obtain the prior approval of the Administrative Board and the Member State(s) concerned. The decision shall specify the scope of the activities to be carried out at the local office in a manner that avoids unnecessary costs and duplication of administrative functions of the Agency. A headquarters agreement with the Member State(s) concerned may be required. ***Where possible, the impact in terms of staff allocation and budget shall be incorporated in the annual work programme, and in any event this project shall be notified to the budgetary authority in accordance with Article 84(11).***

## Amendment 210

### Proposal for a regulation Article 88 – paragraph 3 a (new)

#### *Text proposed by the Commission*

#### *Amendment*

***3 a. The Agency's staff shall be remunerated from the Agency's own resources and, where necessary for the execution of the Agency's delegated tasks, through the use of budget delegated by the***

## **Amendment 211**

### **Proposal for a regulation**

#### **Article 89 – paragraph 1 – subparagraph 2**

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

The Executive Director shall be appointed by the Administrative Board on grounds of merit and documented administrative and managerial skills, as well as relevant competence and experience, from a list of candidates proposed by the Commission, after an open and transparent competition, following the publication of a call for expressions of interest in the Official Journal of the European Union or elsewhere.

##### *Amendment*

The Executive Director shall be appointed by the Administrative Board on grounds of merit and documented administrative and managerial skills, as well as relevant competence and experience, from a list of ***at least three*** candidates proposed by the Commission, after an open and transparent competition, following the publication of a call for expressions of interest in the Official Journal of the European Union or elsewhere.

## **Amendment 212**

### **Proposal for a regulation**

#### **Article 89 – paragraph 2 – subparagraph 2**

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

On the basis of a proposal from the Commission, taking into account the assessment referred to in the first subparagraph, the Administrative Board may extend the term of office of the Executive Director once for a period of up to ***four*** years.

##### *Amendment*

On the basis of a proposal from the Commission, taking into account the assessment referred to in the first subparagraph, the Administrative Board may extend the term of office of the Executive Director once for a period of up to ***five*** years.

## **Amendment 213**

### **Proposal for a regulation**

#### **Article 92 – title**

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

Headquarters agreement and operating conditions

##### *Amendment*

Headquarters ***and Local Offices*** agreement and operating conditions

## Amendment 214

### Proposal for a regulation Article 92 – paragraph 1

*Text proposed by the Commission*

1. Necessary arrangements concerning the accommodation to be provided for the Agency in the host Member **State** and the facilities to be made available by that Member State together with the specific rules applicable in the host Member **State** to the Executive Director, members of the Administrative Board, Agency staff and members of their families shall be laid down in a Headquarters Agreement between the Agency and Member State where the seat is located, concluded after obtaining the approval of the Administrative Board.

*Amendment*

1. Necessary arrangements concerning the accommodation to be provided for the Agency in the host Member **States** and the facilities to be made available by that Member States together with the specific rules applicable in the host Member **States** to the Executive Director, members of the Administrative Board, Agency staff and members of their families shall be laid down in a Headquarters **and Local Offices** Agreement between the Agency and Member State where the seat **or the local infrastructure** is located, concluded after obtaining the approval of the Administrative Board.

## Amendment 215

### Proposal for a regulation Article 98 – paragraph 1

*Text proposed by the Commission*

1. The Agency shall be open to the participation of third countries that have entered into agreements with the Union to this effect.

*Amendment*

1. The Agency shall be open to the participation of third countries **and international organisations** that have entered into agreements with the Union to this effect.

## Amendment 216

### Proposal for a regulation Article 101 – paragraph 1 a (new)

*Text proposed by the Commission*

*Amendment*

**1a. The Commission shall define a methodology to provide for qualitative**

*indicators for an accurate assessment of the progress towards achieving the general objectives set out in points (a), (b) and (c) of Article 4(1). On the basis of that methodology the Commission shall complement the Annex, at the latest by January 1 2021.*

## **Amendment 217**

### **Proposal for a regulation Article 102 – paragraph 2**

*Text proposed by the Commission*

2. The interim evaluation of the Programme shall be performed once there is sufficient information available about the implementation of the programme, but no later than **four** years after the start of the programme implementation.

*Amendment*

2. The interim evaluation of the Programme shall be performed once there is sufficient information available about the implementation of the programme, but no later than **three** years after the start of the programme implementation. ***A specific section of this evaluation shall be dedicated to the governance of the Programme aimed at providing information as to whether amendments to tasks and competences entrusted to the different actors of the Programme are needed.***

## **Amendment 218**

### **Proposal for a regulation Article 102 – paragraph 4**

*Text proposed by the Commission*

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

*Amendment*

4. The Commission shall communicate the conclusions of the evaluations accompanied by its observations, to the European Parliament, the Council, the European Economic and Social Committee and the Committee of the Regions ***and if appropriate may accompany the evaluation with a new legislative proposal.***

## Amendment 219

### Proposal for a regulation

#### Article 102 – paragraph 6 – subparagraph 1

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

By 30 June 2024, and every **five** years thereafter, the Commission shall assess the Agency's performance, in relation to its objectives, mandate, tasks and location, in accordance with Commission guidelines. The evaluation shall, **in particular**, address the possible need to modify the mandate of the Agency, and the financial implications of any such modification. It shall also address the Agency's policy on conflicts of interest and the independence and autonomy of the Security Accreditation Board.

##### *Amendment*

By 30 June 2024, and every **three** years thereafter, the Commission shall assess the Agency's performance, in relation to its objectives, mandate, tasks and location, in accordance with Commission guidelines. The evaluation shall address the possible need to modify the mandate of the Agency, **in particular regarding the possibility to entrust it with additional tasks, in accordance with Article 30**, and the financial implications of any such modification. It shall also address the Agency's policy on conflicts of interest and the independence and autonomy of the Security Accreditation Board.

## Amendment 220

### Proposal for a regulation

#### Article 105 – paragraph 2

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

2. The power to adopt delegated acts referred to in Articles 52 and 101 shall be conferred on the Commission **for an indeterminate period** until 31 December 2028.

##### *Amendment*

2. The power to adopt delegated acts referred to in Articles 52 and 101 shall be conferred on the Commission until 31 December 2028.

## Amendment 221

### Proposal for a regulation

#### Article 107 – paragraph 1

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

1. The Commission shall be assisted by a committee. That committee shall be a committee within the meaning of

##### *Amendment*

1. The Commission shall be assisted by a committee, **which meets in specific configurations/ subcommittees dedicated to each main components of the**

Regulation (EU) No 182/2011.

***Programme (Galileo and EGNOS, Copernicus, SSA, GOVSATCOM).*** That committee shall be a committee within the meaning of Regulation (EU) No 182/2011.

## **Amendment 222**

### **Proposal for a regulation Article 107 – paragraph 3 a (new)**

*Text proposed by the Commission*

*Amendment*

***3a. International agreements concluded by the Union may provide for the involvement, as appropriate, of representatives of third countries or international organisations in the work of the Committee under the conditions laid down in its rules of procedures, taking into account the security of the Union.***



## EXPLANATORY STATEMENT

The European Commission is very ambitious in publishing and adopting the MFF. The Austrian Presidency took the challenge and set a fast and ambitious timeline and the European Parliament is willing to keep the same pace.

The European Commission published the proposal on the 6th of June and your rapporteur is trying to have the confirmation of the plenary to start the inter-institutional agreement in December. Due to this strict and fast timeline, your rapporteur had one month to draft the report that collects two previous programmes and two new initiatives.

Your rapporteur decides to respect the tight schedule. Therefore, the report focuses on the core aspects of the proposal, which are Budget- with reference on SSA, GOVSATCOM and cross-cutting activities, Governance, Industrial competitiveness and Space Diplomacy, Access to Space and Security, particularly, Cybersecurity.

Although the report does not touch neither part of the articles nor the recitals, your rapporteur could still decide to change them through amendments. Due to time constraints, he prefers to table a coherent approach on the main issues.

Space-based services and applications are shaping the current and future well-being and security of European citizens, as well as the competitiveness of its industrial base. It is therefore crucial to foster the Space economy so that all Member States, their citizens and their industries, can fully reap the benefits of this Space Programme whose final beneficiaries are the users.

While recognising the emergence of new communities either public or private, its evolution should be based on the changing requirements of the core users. The different components of the Programme should base themselves on an analysis of options to meet new user needs, including those related to implementation and to monitor Union policies, which require their continuous and effective involvement, particularly regarding the definition and validation of requirements.

The proposal of the European Commission merges in a single Programme the existing Galileo, EGNOS and Copernicus and adds two new initiatives, which are SSA and GOVSATCOM. As encouraged in the Space Policy for Europe, a fully integrated Space Programme will exploit synergies between the components, increasing effectiveness and cost efficiency. A single and coherent framework will encourage future investments, increase visibility and offer more flexibility.

Your rapporteur welcomes a substantial increase in funding for the Space Programme to assure the continuity of Galileo, EGNOS and Copernicus. It is important that the budget support a state-of-the-art and innovative Galileo, EGNOS and Copernicus initiatives, to reap all the benefits brought by navigation and earth observation. Exploitation, uptake and use of data and services, in particular for the downstream sector, will benefit users and the European industry, enabling growth and jobs' creation in the Union.

Your rapporteur regrets a lack of ambitions in the new SSA and GOVSATCOM initiatives. The European Union and the Member States invest in many critical infrastructures

that must be protected. The possibility of a threat that “comes from above” will increase in the next years. The growing number of constellations with a very high number of satellites in orbit helps to create a situation of "traffic", which is added to the high number of space debris. This endangers the safety of operations with a risk of collision between spacecraft or between spacecraft and space debris. Moreover, another risk posed by space weather consists of different types of unforeseen events. Extreme and major space weather events may threaten the safety of citizens and disrupt the operations of space-based and ground-based infrastructures.

Europe must be able to provide for its needs and security in such a strategic sector autonomously and to be considerate as a reliable interlocutor at the international level.

Secure and guaranteed access to satellite communications is an indispensable tool for security actors. Pooling and sharing of this key security resource at Union level strengthens a Union that protects its citizens. The budget allocated for GOVSATCOM seems not enough to cover the potential request as well as the management of the operations and the provision of a European infrastructure.

The Cyber security of both space and ground infrastructures is key to ensuring the continuity of the systems' operations, their effective ability to carry out the tasks continuously and provide the services required.

It is therefore necessary to plan a specific crosscutting activity and identify the responsible entity in charge to supervise the cyber security aspects in an integrated way. While safeguarding specific needs, in line with the general indications defined by the European bodies that oversee the aspects of cyber security and with the involvement with other stakeholders, it is important to define policies, operating procedures, and verify their coherent implementation in the various components.

Europe is one of the top world leaders in space, but in order to keep and develop its capabilities, an effort is required. In an increasingly uncertain geopolitical environment, investing in space must remain an institutional priority to preserve Europe's leadership, competitiveness, sustainability and autonomy in this strategic domain in the future.

This becomes of major importance in a context where traditional space powers remain very active and, at the same time, new players who increasingly challenge the competitiveness of the European space sector come in.

The Space Programme proposed by the European Commission recognises the important role of the European industry, but does not support enough the means to maintain and develop a strong, innovative, competitive and diversified industrial base in Europe. It is important to promote the widest and most open participation possible of start-ups, new entrants, small and medium sized enterprises in all Member States in the upstream as well as in the downstream market, throughout the supply chain and in the application and services sector.

International competitiveness of European industries has to be fostered by creating the appropriate conditions to ensure a level playing field with the major space competitors. In order to open up new business opportunities for the European space industry, your rapporteur strongly encourages the Commission to use economic diplomacy to pursue international

cooperation and the rise of space awareness worldwide.

The industry should have the possibility to compete for the realization of activities that are able to perform with the same levels of reliability and safety of the public, but with greater economic efficiency. Whenever this happens, the industry should be able to offer its expertise in a fair competition context, without market distortion, to save public resources and use the most efficient solution.

Furthermore, the European space programme should foster an autonomous Access to Space through the aggregation of launches, the development of alternative launching technologies, and support the ground infrastructures.

International competitors, countries with the capacity to access to space, namely US, Russia and China, benefit of a strongly protected institutional domestic market with higher institutional prices and long-term procurement contracts.

Therefore, the international competitors may offer launch service to a significantly increased competitive price than the European industry. For security and economic reasons, it would be important to establish the level playing field, guarantee an autonomous access to space and allow the European industries to compete on the international level.

The objectives of the Space Programme will also be addressed through synergies with other European Programme and financial instruments. The proposal will improve access for space start-ups to risk finance. At the same time, the Commission will explore the creation of a dedicated equity instrument through the InvestEU programme. The new space programme will create innovation partnerships to develop and purchase innovative products and services, facilitate access to testing and processing facilities, promote certification and standardisation. The programme will foster coherence and synergies with Horizon Europe, ensuring collaboration between space-related research and innovation actions. Your rapporteur regrets the lack of a specific budget for space research in Horizon Europe in order to give certainty to the investors and to assure the competitiveness and the leadership of European industries in this important sector.

At the basis of a smooth functioning of the programme, there is the right Governance, the division of tasks and roles and the relations between the main actors, namely the European Commission, the renamed European Union Agency for the Space Programme (the Agency) and the European Space Agency (ESA). The governance should also take into account the involvement of Member States and their agencies, and other international European players.

The European Commission has the overall responsibility for the programme, its security, and it coordinates the activities of entities involved in the Programme.

The Agency increased its competencies over the years and is ready to complete more tasks. If the Agency will be responsible for the security accreditation, possibly for the cybersecurity and the promotion of the services and the downstream applications of the Programme, the European Commission has to invest in its expansion, with an increased number of officials and geographical widening with the potential creation of new local offices.

ESA's role is fundamental for technical and operational support of the EU for the realization of well-identified components of the Space Programme, operating in accordance with

procedures and rules consistent with those of the European Union.

11.10.2018

## **OPINION OF THE COMMITTEE ON BUDGETS**

for the Committee on Industry, Research and Energy

on the proposal for a regulation of the European Parliament and of the Council establishing the space programme of the Union and the European Union Agency for the Space Programme and repealing Regulations (EU) No 912/2010, (EU) No 1285/2013, (EU) No 377/2014 and Decision 541/2014/EU  
(COM(2018)0447 – C8-0258/2018 – 2018/0236(COD))

Rapporteur for opinion: John Howarth

### **SHORT JUSTIFICATION**

Space industries within the European Union are worth an estimated €53-62bn in added value, employing 231,000 professionals. The objectives of the European Union Space programme are to enhance the security of the Union and deliver technological independence, to tackle some of the most pressing global challenges such as fighting climate change, to stimulate technological innovation, and to provide socio-economic benefits to the businesses and peoples of Europe. The programme will continue to focus on improving the EU's three flagship projects: Galileo (satellite navigation), Copernicus (Earth observation) and EGNOS ("safety of life" navigation), as well as developing STT (Security of space) and launching the Govsatcom initiative (secure satellite communications).

Through the MFF period of 2021-27 the proposal of the Commission is to fund Galileo/Egnos at €8.6bn in 2018 (constant) prices (€9.7bn in current prices) and Copernicus at €5.1bn (€5.8bn). €0.4bn (€0.5bn) has been allocated to STT and Govsatcom. Overall the space programme accounts for 1.25% of 2021-27 MFF commitments. All figures must be regarded as indicative until the conclusion of the MFF process and are expressed here in constant prices to enable direct comparison with the previous MFF period.

The European Union Space programme enables Member States to realise technology benefits from a programme too large for any one Member state to compete effectively. By doing so, as well as the direct benefits in employment and supporting a competitive space sector, space programme technology, data and services add substantial value to European Union budgets

including but not limited to fisheries policy, environmental and climate programmes, precision farming and transport and traffic modelling/management. The EU should seek to harness information from the space programme to better inform future budget planning and decision making in these and other areas.

The Commission has signalled the intent to create, from the existing European Global Navigation Satellite Systems Agency, a European Union Agency for the Space Programme to provide “a unified and simplified system of governance”, while the European Space Agency will continue as the main partner in programme implementation. The intention to create a greater focus for the marketing, management and governance of the programme through the renamed agency are welcome. Financial risk is inherent in the creation of new governance structure and thus the importance of clarity in strategy, the division of function, responsibility and oversight in the governance of the European Union Agency for the Space Programme in order to mitigate budgetary risk is emphasised.

The programme relies on technology and skills which are highly specialised, sometimes unique and which takes advantage of new developments. The programme should therefore operate within an MFF that is sufficiently flexible to address cost variation and new developments and within a regulatory framework with sufficiently flexible to serve the best interests of Union, the programme and the Member States.

## AMENDMENTS

The Committee on Budgets calls on the Committee on Industry, Research and Energy, as the committee responsible, to take into account the following amendments:

### Amendment 1

#### Proposal for a regulation

##### Recital 4

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

(4) The Union needs to ensure its freedom of action and autonomy to have access to space and be able to use it safely. It is therefore essential that it maintains autonomous, reliable and cost-effective access to space, especially as regards critical infrastructure and technology, public security and the security of the Union and its Member States. The Commission should therefore have the possibility to aggregate launch services at European level, both for its own needs and, at their request, for those of other entities, including Member States, in conformity with the provisions of Article 189(2) of the

###### *Amendment*

(4) The Union needs to ensure its freedom of action and autonomy to have access to space and be able to use it safely. It is therefore essential that it maintains autonomous, reliable and cost-effective access to space, especially as regards critical infrastructure and technology, public security and the security of the Union and its Member States. The Commission should therefore have the possibility to aggregate launch services at European level, both for its own needs and, at their request, for those of other entities, including Member States, in conformity with the provisions of Article 189(2) of the

Treaty. It is also crucial that the Union continues to have modern, efficient and flexible launch infrastructure facilities. In addition to measures taken by Member States and the European Space Agency, the Commission should consider ways to support such facilities. In particular, where space ground infrastructure necessary to perform launches in line with the needs of the Programme is to be maintained or upgraded, it should be possible to partially fund such adaptations under the Programme, in line with the Financial Regulation and where a clear EU value added can be established, with the view of achieving a better cost efficiency for the Programme.

Treaty. It is also crucial that the Union continues to have modern, efficient and flexible launch infrastructure facilities. In addition to measures taken by Member States and the European Space Agency, the Commission should consider ways to support such facilities. In particular, where space ground infrastructure necessary to perform launches in line with the needs of the Programme is to be maintained or upgraded, it should be possible to partially fund such adaptations under the Programme, in line with the Financial Regulation and where a clear EU value added can be established, with the view of achieving a better cost efficiency for the Programme, *relying on a flexible Multiannual Financial Framework capable of reacting to changing circumstances.*

## Amendment 2

### Proposal for a regulation Recital 13

#### *Text proposed by the Commission*

(13) Reflecting the importance of tackling climate change in line with the Union's commitments to implement the Paris Agreement and the United Nations Sustainable Development Goals, this Programme will contribute to mainstream climate actions and to the achievement of an overall target of **25 %** of the EU budget expenditures supporting climate objectives. Relevant actions will be identified during the Programme's preparation and implementation, and reassessed in the context of the relevant evaluations and review processes.

#### *Amendment*

(13) Reflecting the importance of tackling climate change in line with the Union's commitments to implement the Paris Agreement and the United Nations Sustainable Development Goals *as a frontrunner*, this Programme will contribute to mainstream climate actions and to the *swift* achievement of an overall target of **30 %** of the EU budget expenditures supporting climate objectives *as well as to the mainstreaming of the Sustainable Development Goals into all Union policies*. Relevant actions will be identified during the Programme's preparation and implementation, and reassessed in the context of the relevant evaluations and review processes.

## Amendment 3

### Proposal for a regulation Recital 15

*Text proposed by the Commission*

(15) As the Programme is, in principle, financed by the Union, procurement contracts concluded under this programme should comply with Union rules. In that context, the Union should also be responsible for defining the objectives to be pursued as regards public procurement.

*Amendment*

(15) As the Programme is, in principle, financed by the Union, procurement contracts concluded under this programme should comply with Union rules ***and take due account of Environmental, Social and Corporate Governance criteria***. In that context, the Union should also be responsible for defining the objectives to be pursued as regards public procurement. ***The overall implementation of the Programme, including its procurement procedures, should comply with the principles of transparency, of non-discrimination and of equal treatment, in particular as regards gender equality.***

## Amendment 4

### Proposal for a regulation Recital 25

*Text proposed by the Commission*

(25) Sound public governance of the Programme requires the strict distribution of responsibilities and tasks among the different entities involved to avoid duplication and reduce cost overruns and delays.

*Amendment*

(25) Sound public governance of the Programme requires the strict distribution of responsibilities and tasks among the different entities involved, ***in particular between the European Union Agency for the Space Programme and the European Space Agency***, to avoid ***unnecessary duplication of effort*** and reduce cost overruns and delays. ***The Commission should coordinate and monitor the tasks and communication based on the principles established in the Lisbon Treaty<sup>1a</sup> and the Framework Agreement between the European Community and the European Space Agency<sup>1b</sup>.***



*<sup>1a</sup> Art. 189.3 Lisbon Treaty*

*<sup>1b</sup> "Whereas the Parties recognise that they have specific complementary and mutually reinforcing strengths and are committed to cooperating in an efficient and mutually beneficial manner and to avoiding any unnecessary duplication of effort."*

## Amendment 5

### Proposal for a regulation

#### Recital 39

*Text proposed by the Commission*

(39) The aim of Galileo is to establish and operate the first global satellite navigation and positioning infrastructure specifically designed for civilian purposes, which can be used by a variety of public and private actors in Europe and worldwide. Galileo functions independently of other existing or potential systems, thus contributing amongst other things to the strategic autonomy of the Union. The second generation of the system should be progressively rolled out before 2030, initially with reduced operational capacity.

*Amendment*

(39) The aim of Galileo is to establish and operate ***based on the preparatory work of the European Space Agency*** the first global satellite navigation and positioning infrastructure specifically designed for civilian purposes, which can be used by a variety of public and private actors in Europe and worldwide. Galileo functions independently of other existing or potential systems, thus contributing amongst other things to the strategic autonomy of the Union. The second generation of the system should be progressively rolled out before 2030, initially with reduced operational capacity.

*Justification*

*Galileo is based on the preparatory work of the European Space Agency, which is not clear based on the Commission proposal.*

## Amendment 6

### Proposal for a regulation

#### Article 2 – paragraph 1 – point 23 a (new)

*Text proposed by the Commission*

*Amendment*

***(23 a) "space sector" means:  
"the upstream sector", which includes***

*activities leading to an operational space system, and space exploration;*

*"the downstream sector" which includes activities relating to exploiting satellite data to develop space-related products and services to end-users.*

*Justification*

*Space sector should be further defined and distinguished in an upstream and downstream sector.*

**Amendment 7**

**Proposal for a regulation  
Article 3 – paragraph 2**

*Text proposed by the Commission*

Additionally, the Programme shall include measures for ensuring efficient access to space for the Programme and for fostering an innovative space sector.

*Amendment*

Additionally, the Programme shall include measures for ensuring efficient access to space for the Programme and for fostering an innovative **and competitive** space sector.

**Amendment 8**

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

*Text proposed by the Commission*

(c) enhance the security of the Union and its Member States, its freedom of action and its strategic autonomy, in particular in terms of technologies and evidence-based decision-making;

*Amendment*

(c) enhance the security of the Union and its Member States, its freedom of action and its strategic autonomy, in particular in terms of technologies and **effective**, evidence-based **and cost-saving** decision-making;

**Amendment 9**

**Proposal for a regulation  
Article 11 – paragraph 1**

*Text proposed by the Commission*

1. The financial envelope for the implementation of the Programme for the period 2021 – 2027 shall be EUR **[16]** billion in current prices.

The indicative distribution of the amount referred to in the first subparagraph shall be as follows:

- (a) for Galileo and EGNOS: EUR **[9,7]** billion;
- (b) for Copernicus: EUR **[5,8]** billion;
- (c) for SSA/GOVSATCOM: EUR **[0,5]** billion.

*Amendment*

1. The financial envelope for the implementation of the Programme for the period 2021 – 2027 shall be EUR **14 816 938 000 in 2<sup>018</sup> prices (EUR 16.7 billion in current prices)**.

The indicative distribution of the amount referred to in the first subparagraph shall be as follows:

- (a) for Galileo and EGNOS: EUR **8 606 245 580 in 2018 prices (EUR 9.7 billion in current prices)**;
- (b) for Copernicus: EUR **5 146 002 510 in 2018 prices (EUR 5.8 billion in current prices)**;
- (c) for SSA/GOVSATCOM: EUR **1 064 689 910 in 2018 prices (EUR 1.2 billion in current prices)**.

*Justification*

*In line with the decision of the Conference of Presidents of 13 September 2018, the compromise amendment reflects the latest breakdown of the MFF per programme as provided in the draft interim report on the proposal for a Council regulation on the Multiannual Financial Framework 2021-2027 – Parliament's position with a view to an agreement.*

**Amendment 10**

**Proposal for a regulation**  
**Article 11 – paragraph 2**

*Text proposed by the Commission*

2. Cross-cutting activities as foreseen by Article 3 shall be financed under the Programme's components.

*Amendment*

2. Cross-cutting activities as foreseen by Article 3 **and 6** shall be financed under the Programme's components.

*Justification*

*Supporting the development of a strong, competitive and innovative Space sector should be one of the objectives.*

## Amendment 11

### Proposal for a regulation

#### Article 12 – paragraph 1

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

1. The revenue generated by the components of the Programme shall be paid into the Union budget and used to finance **the** component **which generated the revenue**.

##### *Amendment*

1. The revenue generated by the components of the Programme shall be paid into the Union budget and used to finance **any** component **of the Programme**.

## Amendment 12

### Proposal for a regulation

#### Article 31 – paragraph 2 – indent 6

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

– establish the principles for the remuneration of the European Space Agency, which shall be proportionate to the difficulty of the tasks to be carried out, in line with **market prices and** the fees of the other entities involved, including the Union, and may, where appropriate, be based on performance indicators; those fees shall not cover general overheads which are not associated with the activities entrusted to the European Space Agency by the Union.

##### *Amendment*

– establish the principles for the remuneration of the European Space Agency, which shall be proportionate to the difficulty of the tasks to be carried out, in line with the fees of the other entities involved, including the Union, and may, where appropriate, be based on performance indicators; those fees shall not cover general overheads which are not associated with the activities entrusted to the European Space Agency by the Union.

##### *Justification*

*For many services there are no actual "market prices".*

## Amendment 13

### Proposal for a regulation

#### Article 48 – paragraph 1

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

1. Copernicus shall be implemented building on prior Union investments and,

##### *Amendment*

1. Copernicus shall be implemented building on prior Union investments **and**

where appropriate, drawing on the national or regional capacities of Member States and taking into account the capacities of commercial suppliers of comparable data and information and the need to foster competition and market development.

*financing by the European Space Agency* and, where appropriate, drawing on the national or regional capacities of Member States and taking into account the capacities of commercial suppliers of comparable data and information and the need to foster competition and market development.

#### *Justification*

*Financing of Copernicus is shared by the European Union (70%) and the European Space Agency (30%).*

#### **Amendment 14**

##### **Proposal for a regulation Article 73 – paragraph 1**

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

1. The Administrative Board shall be composed of one representative from each Member State, and four representatives of the Commission, *all with voting rights. The Administrative Board shall also include one member* designated by the European Parliament, with *no* voting rights.

###### *Amendment*

1. The Administrative Board shall be composed of one representative from each Member State, and four representatives of the Commission, *and one representative* designated by the European Parliament, *all* with voting rights.

#### **Amendment 15**

##### **Proposal for a regulation Article 101 – paragraph 4 a (new)**

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

###### *Amendment*

*4 a. Every year, the Commission shall submit a report on the implementation of the Programme to the European Parliament and the Council. The report shall include inter alia information pertaining to risk management, overall cost, annual operating cost, results of the calls for tender, revenues, schedule and performance of the Programme and the Agency.*



## PROCEDURE – COMMITTEE ASKED FOR OPINION

<b>Title</b>	Establishing the space programme of the Union and the European Union Agency for the Space Programme						
<b>References</b>	COM(2018)0447 – C8-0258/2018 – 2018/0236(COD)						
<b>Committee responsible</b> Date announced in plenary	ITRE 14.6.2018						
<b>Opinion by</b> Date announced in plenary	BUDG 14.6.2018						
<b>Rapporteur</b> Date appointed	John Howarth 12.7.2018						
<b>Discussed in committee</b>	13.9.2018						
<b>Date adopted</b>	9.10.2018						
<b>Result of final vote</b>	<table> <tr> <td>+:                   </td><td>30</td></tr> <tr> <td>–:                   </td><td>1</td></tr> <tr> <td>0:                   </td><td>2</td></tr> </table>	+:	30	–:	1	0:	2
+:	30						
–:	1						
0:	2						
<b>Members present for the final vote</b>	Nedzhmi Ali, Jean Arthuis, Richard Ashworth, Reimer Böge, Lefteris Christoforou, Gérard Deprez, José Manuel Fernandes, Eider Gardiazabal Rubial, Jens Geier, Ingeborg Gräßle, Iris Hoffmann, Monika Hohlmeier, John Howarth, Zbigniew Kuźmiuk, Bernd Kölmel, Vladimír Maňka, Siegfried Mureşan, Jan Olbrycht, Younous Omarjee, Răzvan Popa, Paul Rübig, Petri Sarvamaa, Jordi Solé, Eleftherios Synadinos, Inese Vaidere, Monika Vana, Daniele Viotti, Tiemo Wölken, Manuel dos Santos, Patricija Šulin						
<b>Substitutes present for the final vote</b>	Andrey Novakov						
<b>Substitutes under Rule 200(2) present for the final vote</b>	Eleonora Evi, Auke Zijlstra						

## FINAL VOTE BY ROLL CALL IN COMMITTEE ASKED FOR OPINION

30	+
ALDE	Nedzhmi Ali, Jean Arthuis, Gérard Deprez
ECR	Bernd Kölmel, Zbigniew Kuźmiuk
NI	Eleftherios Synadinos
PPE	Richard Ashworth, Reimer Böge, Lefteris Christoforou, José Manuel Fernandes, Ingeborg Gräßle, Monika Hohlmeier, Siegfried Mureşan, Andrey Novakov, Jan Olbrycht, Paul Rübig, Petri Sarvamaa, Patricija Šulin, Inese Vaidere
S&D	Eider Gardiazabal Rubial, Jens Geier, Iris Hoffmann, John Howarth, Vladimír Maňka, Răzvan Popa, Manuel dos Santos, Daniele Viotti, Tiemo Wölken
VERTS/ALE	Jordi Solé, Monika Vana

1	-
ENF	Auke Zijlstra

2	0
EFDD	Eleonora Evi
GUE/NGL	Younous Omarjee

Key to symbols:

+ : in favour

- : against

0 : abstention



15.11.2018

## OPINION OF THE COMMITTEE ON THE ENVIRONMENT, PUBLIC HEALTH AND FOOD SAFETY

for the Committee on Industry, Research and Energy

on the proposal for a regulation of the European Parliament and of the Council establishing the space programme of the Union and the European Union Agency for the Space Programme and repealing Regulations (EU) No 912/2010, (EU) No 1285/2013, (EU) No 377/2014 and Decision 541/2014/EU  
(COM(2018)0447 – C8-0258/2018 – 2018/0236(COD))

Rapporteur for opinion: Adina-Ioana Vălean

### AMENDMENTS

The Committee on the Environment, Public Health and Food Safety calls on the Committee on Industry, Research and Energy, as the committee responsible, to take into account the following amendments:

#### Amendment 1

##### Proposal for a regulation

##### Recital 2

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

(2) The space sector's development has historically been linked to security. In many cases, the equipment, components and instruments used in the space sector are dual-use goods. The possibilities that space offers for the security of the Union and its Member States should therefore be

###### *Amendment*

(2) The space sector's development has historically been linked to security. In many cases, the equipment, components and instruments used in the space sector are dual-use goods. The possibilities that space offers for the security ***and independence*** of the Union and its Member States should therefore be

exploited.

exploited.

## Amendment 2

### Proposal for a regulation Recital 2 a (new)

*Text proposed by the Commission*

*Amendment*

***(2a) The space sector is today crucial to numerous Union and Member States' policies in fields such as the environment, climate change, agriculture and rural development, civil protection and prevention, safety and security, as well as the digital economy. Further potential applications, including space solutions for climate change, need to be identified and actively pursued.***

## Amendment 3

### Proposal for a regulation Recital 3

*Text proposed by the Commission*

*Amendment*

(3) The Union has been developing its own space initiatives and programmes since the end of the 1990s, namely the European Geostationary Navigation Overlay Service (EGNOS) and then Galileo and Copernicus, which respond to the needs of Union citizens and the requirements of public policies. Not only should the continuity of those initiatives be ensured but they must also be improved, so that they remain at the forefront in view of new technology development and the transformations in the digital and information and communications technology domains, meet the new needs of users and are able to meet political priorities such as climate change, including monitoring changes in the Arctic, security and defence.

(3) The Union has been developing its own space initiatives and programmes since the end of the 1990s, namely the European Geostationary Navigation Overlay Service (EGNOS) and then Galileo and Copernicus, which respond to the needs of Union citizens and the requirements of public policies. Not only should the continuity of those initiatives be ensured but they must also be improved, so that they remain at the forefront in view of new technology development and the transformations in the digital and information and communications technology domains, meet the new needs of users and are able to meet political priorities such as climate change ***mitigation and adaptation***, including monitoring changes in the Arctic, security and defence.

## Amendment 4

### Proposal for a regulation

#### Recital 7

*Text proposed by the Commission*

(7) The Commission should promote, alongside the Member States and the High Representative, responsible behaviour in space and outer space and explore the possibility *for* accession to the relevant UN Conventions.

*Amendment*

(7) The Commission should promote, alongside the Member States and the High Representative, responsible behaviour in space and outer space, ***especially in view of the growing quantity of space debris***, and explore the possibility *of* accession to the relevant UN Conventions.

## Amendment 5

### Proposal for a regulation

#### Recital 13

*Text proposed by the Commission*

(13) Reflecting the importance of tackling climate change in line with the Union's commitments to ***implement*** the Paris Agreement and the United Nations Sustainable Development Goals, this Programme will contribute to mainstream climate actions and to the achievement of an overall target of **25 %** of the EU budget expenditures supporting climate objectives. Relevant actions will be identified during the Programme's preparation and implementation, and reassessed in the context of the relevant evaluations and review processes.

*Amendment*

(13) Reflecting the importance of tackling climate change in line with the Union's ***climate objectives and its*** commitments to ***implementing*** the Paris Agreement and the United Nations Sustainable Development Goals ***as a front-runner***, this Programme will contribute to ***mainstreaming*** climate actions and to the ***swift*** achievement of an overall target of **30 %** of the EU budget expenditures supporting climate objectives, ***as well as to the mainstreaming of the Sustainable Development Goals into all Union policies***. Relevant actions will be identified during the Programme's preparation and implementation, and reassessed in the context of the relevant evaluations and review processes.

## Amendment 6

### Proposal for a regulation

## Recital 47

*Text proposed by the Commission*

(47) Copernicus should ensure an autonomous access to environmental knowledge and key technologies for Earth observation and geo-information services, thereby enabling the Union to achieve independent decision-making and actions in the fields of the environment, climate change, civil protection, security, as well as the digital economy, among others.

*Amendment*

(47) Copernicus should ensure an autonomous access to environmental knowledge and key technologies for Earth observation and geo-information services, thereby enabling the Union to achieve independent decision-making and actions in the fields of the environment, climate change, ***biodiversity, land use, soil protection, ocean health***, civil protection ***and prevention***, security, as well as the digital economy, among others.

## Amendment 7

### Proposal for a regulation Recital 47 a (new)

*Text proposed by the Commission*

*Amendment*

***(47a) The number of users of climate change-related Copernicus services is continuing to rise and has doubled from 2015 to 2016. Those services need to be made fully operational in order to make data more widely available for climate change mitigation and adaptation measures.***

## Amendment 8

### Proposal for a regulation Recital 62 a (new)

*Text proposed by the Commission*

*Amendment*

***(62a) Transportation of space vessels and their components from earth to space comes at significant operational costs and environmental impact. In order to reduce the number of journeys to space and thereby the emission of greenhouse gas***

*emissions, space vessels should be designed with a view to reusability in space. Furthermore, a long term objective should be to enable sustainable energy production in space by using the resources available in space, for example to set up the production of hydrogen that could allow for the refuelling of space vessels.*

## Amendment 9

### Proposal for a regulation Recital 64

#### *Text proposed by the Commission*

(64) The delivery of SST services should be based on a cooperation between the Union and the Member States and on the use of existing as well as future national expertise and assets, including those developed through the European Space Agency or by the Union. It should be possible to provide financial support for the development of new SST sensors. Recognising the sensitive nature of the SST, the control over national sensors and their operations, maintenance and renewal and the processing of data leading to the provision of SST services should remain with the *participating* Member States.

#### *Amendment*

(64) The delivery of SST services should be based on a cooperation between the Union and the Member States and on the use of existing as well as future national *and ESA* expertise and assets, including those developed through the European Space Agency or by the Union. It should be possible to provide financial support for the development of new SST sensors. Recognising the sensitive nature of the SST, the control over national *and ESA* sensors and their operations, maintenance and renewal and the processing of data leading to the provision of SST services should remain with the Member States.

## Amendment 10

### Proposal for a regulation Recital 67

#### *Text proposed by the Commission*

(67) In addition, the SST should be complementary to existing mitigation measures, such as the Space Debris Mitigation Guidelines of the Committee on the Peaceful Uses of Outer Space (COPUOS) and Guidelines for the Long-

#### *Amendment*

(67) In addition, the SST should be complementary to existing mitigation measures, such as the Space Debris Mitigation Guidelines of the Committee on the Peaceful Uses of Outer Space (COPUOS) and Guidelines for the Long-

term Sustainability of Outer Space Activities, or other initiatives, to ensure the safety, security and sustainability of outer space activities. With a view to reducing risks of collision, the SST would also seek synergies with initiatives of active removal and passivation measures of space debris. The SST should contribute to ensuring the peaceful use and exploration of outer space. The increase in space activities may have **implication on** the international initiatives in the area of the space traffic management. The Union should monitor those developments and may take them into consideration in the context of the mid-term review of the current MFF.

term Sustainability of Outer Space Activities, or other initiatives, to ensure the safety, security and sustainability of outer space activities. With a view to reducing risks of collision, the SST would also seek synergies with initiatives of active removal and passivation measures of space debris, **for instance by developing active removal technologies**. The SST should contribute to ensuring the peaceful use and exploration of outer space. The increase in space activities may have **implications for** the international initiatives in the area of the space traffic management. The Union should monitor those developments and may take them into consideration in the context of the mid-term review of the current MFF.

## Amendment 11

### Proposal for a regulation

#### Recital 70

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

(70) Extreme and major space weather events may threaten the safety of citizens and disrupt the operations of space-based and ground-based infrastructure. A space weather function should therefore be established as part the Programme with an aim of assessing the space weather risks and corresponding user needs, raising the awareness of space weather risks, ensuring the delivery of user-driven space weather services, and improving Member States capabilities to produce space weather service. The Commission should prioritise the sectors to which the operational space weather services are to be provided taking into account the user needs, risks and technological readiness. In the long term, the needs of other sectors may be addressed. The delivery of services at Union level according to the users' needs will require targeted, coordinated and continued research and development

##### *Amendment*

(70) Extreme and major space weather events may threaten the safety of citizens and disrupt the operations of space-based and ground-based infrastructure. A space weather function should therefore be established as part the Programme with an aim of assessing the space weather risks and corresponding user needs, raising the awareness of space weather risks, ensuring the delivery of user-driven space weather services, and improving Member States capabilities to produce space weather service. The Commission should prioritise the sectors to which the operational space weather services are to be provided taking into account the user needs, risks and technological readiness. In the long term, the needs of other sectors may be addressed. The delivery of services at Union level according to the users' needs will require targeted, coordinated and continued research and development

activities to support space weather services evolution. The delivery of the space weather services should build on the existing national and Union capabilities and enable a broad participation of Member States and involvement of the private sector.

activities to support space weather services evolution. The delivery of the space weather services should build on the existing national, **ESA** and Union capabilities and enable a broad participation of Member States and involvement of the private sector.

## Amendment 12

### Proposal for a regulation

#### Recital 71

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

(71) The Commission White Paper on the future of Europe<sup>25</sup>, the Rome Declaration of the Heads of State and Government of 27 EU Member States<sup>26</sup>, and several European Parliament resolutions, recall that the **EU** has a major role to play in ensuring a safe, secure and resilient Europe that is capable to address challenges such as regional conflicts, terrorism, cyber threats, and growing migration pressures. Secure and guaranteed access to satellite communications is an indispensable tool for security actors, and pooling and sharing of this key security resource at Union level strengthens a Union that protects its citizens.

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[https://ec.europa.eu/commission/sites/beta-political/files/white\\_paper\\_on\\_the\\_future\\_of\\_europe\\_en.pdf](https://ec.europa.eu/commission/sites/beta-political/files/white_paper_on_the_future_of_europe_en.pdf)

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[http://www.consilium.europa.eu/uedocs/cms\\_data/docs/pressdata/en/intm/146072.pdf](http://www.consilium.europa.eu/uedocs/cms_data/docs/pressdata/en/intm/146072.pdf)

##### *Amendment*

(71) The Commission White Paper on the future of Europe<sup>25</sup>, the Rome Declaration of the Heads of State and Government of 27 EU Member States<sup>26</sup>, and several European Parliament resolutions, recall that the **Union** has a major role to play in ensuring a safe, secure and resilient Europe that is capable **of helping** to address challenges such as **climate change**, regional conflicts, terrorism, cyber threats, and growing migration pressures. Secure and guaranteed access to satellite communications is an indispensable tool for security actors, and pooling and sharing of this key security resource at Union level strengthens a Union that protects its citizens.

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[https://ec.europa.eu/commission/sites/beta-political/files/white\\_paper\\_on\\_the\\_future\\_of\\_europe\\_en.pdf](https://ec.europa.eu/commission/sites/beta-political/files/white_paper_on_the_future_of_europe_en.pdf)

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[http://www.consilium.europa.eu/uedocs/cms\\_data/docs/pressdata/en/intm/146072.pdf](http://www.consilium.europa.eu/uedocs/cms_data/docs/pressdata/en/intm/146072.pdf)

## Amendment 13

### Proposal for a regulation

#### Article 2 – paragraph 1 – point 2

*Text proposed by the Commission*

*Amendment*

(2) ‘space weather events’ means naturally occurring variations in the space environment between the Sun and the Earth, including solar flares, solar energetic particles, solar wind, and coronal mass ejections that can lead to solar storms (geomagnetic storms, solar radiation storms and ionospheric disturbances) potentially impacting Earth;

(2) ‘space weather events’ means naturally occurring variations in the space environment between the Sun and the Earth, including solar flares, solar energetic particles, solar wind, and coronal mass ejections that can lead to solar storms (geomagnetic storms, solar radiation storms and ionospheric disturbances) potentially impacting Earth ***or space-based infrastructure***;

**Amendment 14**

**Proposal for a regulation**

**Article 2 – paragraph 1 – point 8 a (new)**

*Text proposed by the Commission*

*Amendment*

***(8a) ‘potential candidates’ means countries or entities which have a clear prospect of joining the Union in the future, but have not yet been granted candidate country status;***

**Amendment 15**

**Proposal for a regulation**

**Article 3 – paragraph 2**

*Text proposed by the Commission*

*Amendment*

Additionally, the Programme shall include measures for ensuring efficient access to space for the Programme and for fostering an innovative space sector.

Additionally, the Programme shall include measures for ensuring efficient access to space for the Programme and for fostering an innovative ***and competitive*** space sector.

**Amendment 16**

**Proposal for a regulation**

**Article 4 – paragraph 2 – point b**

*Text proposed by the Commission*

*Amendment*

(b) for Copernicus: to deliver accurate

(b) for Copernicus: to deliver accurate,



**and** reliable Earth Observation data and information, supplied on a long-term basis, to support the implementation and monitoring of the Union and its Member States' policies in the fields of the environment, climate change, agriculture and rural development, civil protection, safety and security, as well as the digital economy;

reliable **and user-oriented** Earth Observation data and information, supplied on a long-term basis, to support the implementation and monitoring of the Union and its Member States' policies in the fields of the environment, climate change, agriculture and rural development **humanitarian aid**, civil protection, safety and security, as well as the digital economy;

## Amendment 17

### Proposal for a regulation

#### Article 4 – paragraph 2 – point c

*Text proposed by the Commission*

(c) for Space Situational Awareness ('SSA'): to enhance SST capabilities to monitor, track and identify space objects, to monitor space weather **and** to map and network Member States NEO capacities;

*Amendment*

(c) for Space Situational Awareness ('SSA'): to enhance SST capabilities to monitor, track and identify space objects, to monitor space weather, to map and network Member States' NEO capacities, **and to bring about solutions for European Earth orbit clean-up operations**;

## Amendment 18

### Proposal for a regulation

#### Article 5 – paragraph 1 – point b

*Text proposed by the Commission*

(b) development activities linked to autonomous, reliable and cost-efficient access to space;

*Amendment*

(b) development activities linked to autonomous, reliable and cost-efficient access to space **including alternative energy production making use of the resources available in space, new launching technologies and innovative systems or services, taking into account the essential security interests of the Union and its Member States, as referred to in Article 25**;

## Amendment 19

### Proposal for a regulation

#### Article 6 – paragraph 1 – point e

*Text proposed by the Commission*

(e) provision of education and training activities;

*Amendment*

(e) provision of education and training activities, ***for instance through traineeships aimed at students, recent graduates, and young professionals and entrepreneurs;***

## Amendment 20

### Proposal for a regulation

#### Article 27 – paragraph 1 – point d

*Text proposed by the Commission*

(d) systematic consideration of the needs of users of the services provided by the Programme's components, as well as of scientific and technological evolutions relating to those services;

*Amendment*

(d) systematic consideration of the needs of users of the services provided by the Programme's components, ***including consultation of the Copernicus users' forum referred to in Article 48(1),*** as well as of scientific and technological evolutions relating to those services;

## Amendment 21

### Proposal for a regulation

#### Article 48 – paragraph 1 – subparagraph 1 a (new)

*Text proposed by the Commission*

*Amendment*

***For the purposes of coordination and management of Copernicus, the Commission shall be assisted by the Copernicus Committee, composed of representatives of the Member States and by the Copernicus users' forum. The Copernicus users' forum shall be a working group of the Copernicus Committee, staffed by the national user communities. The Copernicus users' forum shall play a key role in collecting contributions on Copernicus-related***

*developments and disseminating them to users.*

## Amendment 22

### Proposal for a regulation Article 50

*Text proposed by the Commission*

#### Article 50

##### Copernicus Services

Copernicus shall include actions in support of the following services:

- (a) environmental monitoring, reporting and compliance assurance services covering:
  - atmosphere monitoring to provide information on air quality and chemical composition of the atmosphere;
  - marine environment monitoring to provide information on the state and dynamics of marine and coastal ecosystems and their resources;
  - land monitoring and agriculture to provide information on land cover, land use and land use change, urban areas, inland water quantity and quality, forests, agriculture and other natural resources, biodiversity and cryosphere;
  - climate **monitoring** change to provide information on anthropogenic CO<sub>2</sub> and other greenhouse gas emissions, essential climate variables, climate reanalyses, seasonal forecasts, climate projections and attribution, as well as indicators at relevant temporal and spatial scales;
- (b) emergency management service to provide information in support of public

*Amendment*

#### Article 50

##### Copernicus Services

Copernicus shall include actions in support of the following services:

- (a) environmental monitoring, reporting and compliance assurance services covering:
  - atmosphere monitoring to provide information on air quality and chemical composition of the atmosphere;
  - marine environment monitoring, ***with particular emphasis on plastic and microplastic pollution mapping***, to provide information on the state and dynamics of marine and coastal ecosystems and their resources;
  - land monitoring and agriculture to provide information on land cover, land use and land use change, ***soil quality, desertification***, urban areas, inland water quantity and quality, forests ***and deforestation*** agriculture and other natural resources, biodiversity and cryosphere;
  - climate change **monitoring**, to provide information on anthropogenic CO<sub>2</sub> and other greenhouse gas emissions, essential climate variables, climate reanalyses, seasonal forecasts, climate projections and attribution, as well as indicators at relevant temporal and spatial scales;
  - ***monitoring of UNESCO natural and cultural heritage sights***;
- (b) emergency management service to provide information in support of ***the***

authorities concerned with civil protection established in the Union, supporting civil protection and emergency response operations (improving early warning activities and crisis response capacities), and prevention and preparedness actions (risk and recovery analyses) in relation to *different* types of disasters;

(c) security service to support surveillance of the Union's external borders, maritime surveillance, as well as Union external action responding to security challenges facing the Union, and Common Foreign and Security Policy objectives and actions.

## Amendment 23

### Proposal for a regulation

#### Article 77 – paragraph 2 – point a

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

(a) adopt, by 15 November each year, the Agency's work programme for the following year after incorporating, without any change, the section drafted by the Security Accreditation Board, in accordance with point (b) of Article 80, and after having received the Commission's opinion;

## Amendment 24

### Proposal for a regulation

#### Article 99 – paragraph 1

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

1. Members of the Administrative Board and of the Security Accreditation Board, the Executive Director, seconded

### ***Emergency Response Coordination***

***Centre and of the*** public authorities concerned with civil protection established in the Union, supporting ***European and national*** civil protection and emergency response operations (especially improving early warning activities and crisis response capacities), and prevention and preparedness actions (risk and recovery analyses) in relation to ***all possible*** types of disasters;

(c) security service to support surveillance of the Union's external borders, maritime surveillance, as well as Union external action responding to security challenges facing the Union, and Common Foreign and Security Policy objectives and actions.

##### *Amendment*

(a) adopt, by 15 November each year, the Agency's work programme for the following year after incorporating, without any change, the section drafted by the Security Accreditation Board, in accordance with point (b) of Article 80, and after having received the Commission's opinion ***and after having consulted with the European Parliament on that work programme;***

##### *Amendment*

1. Members of the Administrative Board and of the Security Accreditation Board, the Executive Director, seconded

national experts and observers shall make a declaration of commitments and a declaration of interests indicating the absence or existence of any direct or indirect interests which might be considered prejudicial to their independence. Those declarations shall be accurate and complete. They shall be made in writing upon the entry into service of the persons concerned and shall be renewed annually. They shall be updated whenever necessary, in particular in the event of relevant changes in the personal circumstances of the persons concerned.

national experts and observers shall make a declaration of commitments and a declaration of interests indicating the absence or existence of any direct or indirect interests which might be considered prejudicial to their independence. Those declarations shall be accurate and complete. They shall be made in writing upon the entry into service of the persons concerned and shall be renewed annually. They shall be updated whenever necessary, in particular in the event of relevant changes in the personal circumstances of the persons concerned.

***Both the declaration of commitments and the declaration of interests shall be made publicly available and easily accessible online.***

#### *Justification*

*Increased transparency will increase public trust in this work.*

#### **Amendment 25**

##### **Proposal for a regulation Article 99 – paragraph 2**

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

2. Before any meeting which they are to attend, members of the Administrative Board and of the Security Accreditation Board, the Executive Director, seconded national experts, observers and external experts participating in ad hoc working groups shall accurately and completely declare the absence or existence of any interest which might be considered prejudicial to their independence in relation to any items on the agenda, and shall abstain from participating in the discussion of and voting upon such points.

###### *Amendment*

2. Before any meeting which they are to attend, members of the Administrative Board and of the Security Accreditation Board, the Executive Director, seconded national experts, observers and external experts participating in ad hoc working groups shall accurately and completely declare the absence or existence of any interest which might be considered prejudicial to their independence in relation to any items on the agenda, and shall abstain from participating in the discussion of and voting upon such points.

***Declarations of interest relating to agenda items shall be made publicly available and easily accessible online.***

*Justification*

*Increased transparency will increase public trust in this work.*

## PROCEDURE – COMMITTEE ASKED FOR OPINION

<b>Title</b>	Establishing the space programme of the Union and the European Union Agency for the Space Programme						
<b>References</b>	COM(2018)0447 – C8-0258/2018 – 2018/0236(COD)						
<b>Committee responsible</b> Date announced in plenary	ITRE 14.6.2018						
<b>Opinion by</b> Date announced in plenary	ENVI 14.6.2018						
<b>Rapporteur</b> Date appointed	Adina-Ioana Vălean 21.6.2018						
<b>Date adopted</b>	12.11.2018						
<b>Result of final vote</b>	<table> <tr> <td>+:                   </td><td>48</td></tr> <tr> <td>–:                   </td><td>0</td></tr> <tr> <td>0:                   </td><td>0</td></tr> </table>	+:	48	–:	0	0:	0
+:	48						
–:	0						
0:	0						
<b>Members present for the final vote</b>	Margrete Auken, Ivo Belet, Biljana Borzan, Lynn Boylan, Paul Brannen, Soledad Cabezón Ruiz, Nessa Childers, Birgit Collin-Langen, Miriam Dalli, Seb Dance, Angélique Delahaye, Mark Demesmaeker, Stefan Eck, Bas Eickhout, Francesc Gambús, Gerben-Jan Gerbrandy, Arne Gericke, Jens Gieseke, Julie Girling, Françoise Grossetête, Andrzej Grzyb, Jytte Guteland, György Hölvényi, Jean-François Jalkh, Benedek Jávor, Karin Kadenbach, Urszula Krupa, Jo Leinen, Peter Liese, Jiří Maštálka, Susanne Melior, Miroslav Mikolášik, Rory Palmer, Bolesław G. Piecha, Annie Schreijer-Pierik, Davor Škrlec, Nils Torvalds, Adina-Ioana Vălean, Jadwiga Wiśniewska, Damiano Zoffoli						
<b>Substitutes present for the final vote</b>	Cristian-Silviu Buşoi, Fredrick Federley, Giorgos Grammatikakis, Christophe Hansen, Tilly Metz, Carolina Punset						
<b>Substitutes under Rule 200(2) present for the final vote</b>	Paul Rübig, Tomáš Zdechovský						

## FINAL VOTE BY ROLL CALL IN COMMITTEE ASKED FOR OPINION

48	+
ALDE	Fredrick Federley, Gerben-Jan Gerbrandy, Carolina Punset, Nils Torvalds
ECR	Mark Demesmaeker, Arne Gericke, Urszula Krupa, Bolesław G. Piecha, Jadwiga Wiśniewska
ENF	Jean-François Jalkh
GUE/NGL	Lynn Boylan, Stefan Eck, Jiří Maštálka
PPE	Ivo Belet, Cristian-Silviu Buşoi, Birgit Collin-Langen, Angélique Delahaye, Francesc Gambús, Jens Gieseke, Julie Girling, Françoise Grossetête, Andrzej Grzyb, Christophe Hansen, György Hölvényi, Peter Liese, Miroslav Mikolášik, Paul Rübig, Annie Schreijer-Pierik, Adina-Ioana Vălean, Tomáš Zdechovský
S&D	Biljana Borzan, Paul Brannen, Soledad Cabezón Ruiz, Nessa Childers, Miriam Dalli, Seb Dance, Giorgos Grammatikakis, Jytte Guteland, Karin Kadenbach, Jo Leinen, Susanne Melior, Rory Palmer, Damiano Zoffoli
VERTS/ALE	Margrete Auken, Bas Eickhout, Benedek Jávor, Tilly Metz, Davor Škrlec

0	-

0	0

Key to symbols:

+ : in favour

- : against

0 : abstention



11.10.2018

## **OPINION OF THE COMMITTEE ON TRANSPORT AND TOURISM**

for the Committee on Industry, Research and Energy

on the proposal for a regulation of the European Parliament and of the Council establishing the space programme of the Union and the European Union Agency for the Space Programme and repealing Regulations (EU) No 912/2010, (EU) No 1285/2013, (EU) No 377/2014 and Decision 541/2014/EU  
(COM(2018)0447 – C8-0258/2018 – 2018/0236(COD))

Rapporteur for opinion: Massimiliano Salini

### **SHORT JUSTIFICATION**

Space-based services and applications are shaping the current and future well-being, security and safety of European citizens, as well as the competitiveness of its industrial base. It is therefore crucial to foster the Space economy so that all Member States, their citizens and their industries, can fully reap the benefits of this Space Programme.

A modern, safer, competitive, efficient, sustainable transport sector is deeply interconnected with the space services. The navigation system and the earth observation are improving the performance of the transport services, the traffic management, and the integrated transport. At the same time, they can boost many new applications and innovative business opportunities in the transport sector.

Already many European policies foreseen the integration of space and transport as eCall, European Railway Traffic Management System (ERTMS), SafeSeaNet, etc. and new challenges will come, as the unmanned vehicles and autonomous driving.

A sound interconnection between space and transport technologies will bring many benefits at global and European level, for examples a more efficient traffic management will reduce the emissions and tackle the problem of the climate change, an increased use of drones will improve the delivery and postal services, a better flight tracking will reduce flight cancellations and noise.

The proposal of the European Commission merges in a single Programme the existing Galileo, EGNOS and Copernicus and adds two new initiatives, which are SSA and

GOVSATCOM. As suggested in the Space Policy for Europe, a fully integrated Space Programme will exploit synergies between the components, increasing effectiveness and cost efficiency. A single and coherent framework will encourage future investments, increase visibility and offer more flexibility.

The European Commission is very ambitious for the adoption of the Multiannual Financial Framework (MFF) 2021- 2027. The Austrian Precedency took the challenge and set a fast timeline. The European Parliament is willing to keep the same pace.

Due to this strict and fast timeline, the opinion focuses on specific aspects of the proposal, the connection between the space technologies and the transport sector, the budget, with reference to SSA, GOVSATCOM and cross-cutting activities, governance, security, cybersecurity and safety, space diplomacy and access to space.

The space sector plays a strategic role in making land, maritime, air and space transport smarter, more efficient, safer, more secure, sustainable and integrated. At the same time, a growing, innovative transport sector will increase the demand of quality and up-to-date space services.

As regards the governance, the new European Agency for the Space Programme should ensure GALILEO market up-take, incentivising the development of fully compatible and interoperable European devices, such as chipsets and receivers, and be fully operational in all transport modes.

The European Union and the Member States invest in many critical infrastructures among which many strategic transport infrastructures, that must be protected. The growing number of constellations, satellites and space debris in orbit helps to create a situation of "traffic" with the risk of collision that endangers the safety of the operations. Moreover, different types of unforeseen events, "space weather", may threaten the safety of citizens and disrupt the operations of space-based and ground-based infrastructures.

Secure and guaranteed access to satellite communications is an indispensable tool for security actors. The GOVSATCOM components is of high importance for transport, in particular arctic maritime transportation, air traffic management and the control and command of unmanned flying vehicles.

The opinion highlights the importance of cybersecurity and safety. The cyber security of European space infrastructures, both ground and space, is key to ensuring the continuity of the operations of the systems, their effective ability to carry out the tasks continuously and to provide the services required. The space policy can contribute to improve transport's safety, for maritime, road and air transport, operators and passengers.

The Space Programme should ensure an independent and competitive access to space and foster the cooperation with other global strategic partners, to avoid duplications and promote a genuine economic diplomacy for the sector.

Although the opinion will not touch neither part of the articles nor the recitals, your rapporteur could still decide to propose a few changes through amendments. Due to time constraints, he prefers to table a coherent approach on the main issues.

## AMENDMENTS

The Committee on Transport and Tourism calls on the Committee on Industry, Research and Energy, as the committee responsible, to take into account the following amendments:

### Amendment 1

#### Proposal for a regulation

##### Recital 1

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

(1) Space technology, data and services have become indispensable in the daily lives of Europeans and play an essential role in preserving many strategic interests. The Union's space industry is already one of the most competitive in the world. However, the emergence of new players and the development of new technologies are revolutionising traditional industrial models. It is therefore crucial that the Union remains a leading international player with extensive freedom of action in the space domain, that it encourages scientific and technical progress and support the competitiveness and innovation capacity of space sector industries within the Union, in particular small and medium-sized enterprises, start-ups and innovative businesses.

###### *Amendment*

(1) Space technology, data and services have become indispensable in the daily lives of Europeans and play an essential role in preserving many strategic interests. The Union's space industry is already one of the most competitive in the world. However, the emergence of new players and the development of new technologies are revolutionising traditional industrial models. It is therefore crucial that the Union remains a leading international player with extensive freedom of action in the space domain, that it encourages scientific and technical progress and support the competitiveness and innovation capacity of space sector industries within the Union, in particular small and medium-sized enterprises, start-ups and innovative businesses. ***At the same time, it is important to create the appropriate conditions to ensure a level playing field with the major space competitors.***

### Amendment 2

#### Proposal for a regulation

##### Recital 3

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

(3) The Union has been developing its own space initiatives and programmes since the end of the 1990s, namely the European Geostationary Navigation Overlay Service (EGNOS) and then

###### *Amendment*

(3) The Union has been developing its own space initiatives and programmes since the end of the 1990s, namely the European Geostationary Navigation Overlay Service (EGNOS) and then

Galileo and Copernicus, which respond to the needs of Union citizens and the requirements of public policies. Not only should the continuity of those initiatives be ensured but *they* must also be improved, so that they remain at the forefront in view of new technology development and the transformations in the digital and information and communications technology domains, *meet* the new needs of users and *are* able to meet political priorities *such as climate change, including monitoring changes* in the *Artic, security and defence*.

Galileo and Copernicus, which respond to the needs of Union citizens and the requirements of public policies. Not only should the continuity of those initiatives be ensured but *their uptake and use* must also be improved, so that they remain at the forefront in view of new technology development and *provide* the transformations in the digital and information and communications technology domains *and in the transport sector, meeting* the new needs of users and *being* able to meet *the* political priorities of *all concerned sectors, in particular* in the *transportation sector*.

### Amendment 3

#### Proposal for a regulation Recital 4

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

(4) The Union needs to ensure its freedom of action and autonomy to have access to space and be able to use it safely. It is therefore essential that it maintains autonomous, reliable and cost-effective access to space, especially as regards critical infrastructure and technology, public security and the security of the Union and its Member States. The Commission should therefore have the possibility to aggregate launch services at European level, both for its own needs and, at their request, for those of other entities, including Member States, in conformity with the provisions of Article 189(2) of the Treaty. It is also crucial that the Union continues to have modern, efficient and flexible launch infrastructure facilities. In addition to measures taken by Member States and the European Space Agency, the Commission should consider ways to support such facilities. In particular, where space ground infrastructure necessary to perform launches in line with the needs of the Programme is to be maintained or

##### *Amendment*

(4) The Union needs to ensure its freedom of action and autonomy to have access to space and be able to use it safely. It is therefore essential that it maintains autonomous, reliable and cost-effective access to space, *including alternative launching technologies and innovative systems or services*, especially as regards critical infrastructure and technology, public security and the security of the Union and its Member States. The Commission should therefore have the possibility to aggregate launch services at European level, both for its own needs and, at their request, for those of other entities, including Member States, in conformity with the provisions of Article 189(2) of the Treaty. It is also crucial that the Union continues to have modern, efficient and flexible launch infrastructure facilities. In addition to measures taken by Member States and the European Space Agency, the Commission should consider ways to support such facilities. In particular, where space ground infrastructure necessary to

upgraded, it should be possible to partially fund such adaptations under the Programme, in line with the Financial Regulation and where a clear EU value added can be established, with the view of achieving a better cost efficiency for the Programme.

perform launches in line with the needs of the Programme is to be maintained or upgraded, it should be possible to partially fund such adaptations under the Programme, in line with the Financial Regulation and where a clear EU value added can be established, with the view of achieving a better cost efficiency for the Programme.

#### Amendment 4

##### Proposal for a regulation Recital 5

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

(5) To strengthen the competitiveness of the Union space industry and gain capacities in designing, building and operating its own systems, the Union should support the creation, growth, and development of the entire space industry. The emergence of a business- and innovation-friendly model should be supported at European, regional and national levels **by establishing** space hubs that bring together the space, digital and user sectors. The Union should foster the expansion of **Union-based** space companies to help them succeed, including by supporting them in accessing risk finance in view of the lack, within the Union, of appropriate access to private equity for space start-ups and by creating innovation partnerships (first contract approach).

###### *Amendment*

(5) To strengthen the competitiveness of the Union space industry and gain capacities in designing, building and operating its own systems, the Union should support the creation, growth, and development of the entire space industry. The emergence of a business- and innovation-friendly model should be supported at European, regional and national levels **especially, but not only, through initiatives like** space hubs that bring together the space, digital and user sectors. **Space hubs should work in cooperation with the digital innovation hubs to foster entrepreneurship and skills.** The Union should foster the expansion of **European** space companies to help them succeed, including by supporting them in accessing risk finance in view of the lack, within the Union, of appropriate access to private equity for space start-ups and by creating innovation partnerships (first contract approach).

#### Amendment 5

##### Proposal for a regulation Recital 6

(6) Owing to its coverage and its potential to help resolve global challenges, the space programme of the Union ('Programme') has a strong international dimension. The Commission should therefore be enabled to manage, on behalf of the Union, and coordinate activities on the international scene on behalf of the Union, in particular to defend the interests of the Union and its Member States in international fora, including in the area of frequencies, to promote the Union's technology and industry, and to encourage cooperation in the field of training, bearing in mind the need to ensure the reciprocity of the rights and obligations of the parties. It is particularly important that the Union be represented by the Commission in the bodies of the International Cospas-Sarsat Programme or in relevant sectoral UN bodies including the Food and Agriculture Organisation, as well as the World Meteorological Organisation.

(6) Owing to its coverage and its potential to help resolve global challenges, the space programme of the Union ('Programme') has a strong international dimension. The Commission should therefore be enabled to manage, on behalf of the Union, and coordinate activities on the international scene on behalf of the Union, in particular to defend the interests of the Union and its Member States in international fora, including in the area of frequencies. ***The Commission should strengthen economic diplomacy*** to promote the Union's technology and industry, and to encourage cooperation in the field of training, bearing in mind the need to ensure the reciprocity of the rights and obligations of the parties ***and a fair competition at the international level***. It is particularly important that the Union be represented by the Commission in the bodies of the International Cospas-Sarsat Programme or in relevant sectoral UN bodies including the Food and Agriculture Organisation, as well as the World Meteorological Organisation.

## **Amendment 6**

### **Proposal for a regulation**

#### **Recital 7**

(7) The Commission should promote, alongside the Member States and the High Representative, responsible behaviour in space and outer space and explore the possibility for accession to the relevant UN Conventions.

(7) The Commission should promote, alongside the Member States and the High Representative, responsible behaviour in space and outer space, ***in particular by finding solutions against the proliferation of space debris***, and explore the possibility for accession to the relevant UN Conventions.

## **Amendment 7**

**Proposal for a regulation**  
**Recital 8**

*Text proposed by the Commission*

(8) The Programme shares similar objectives with other Union programmes, notably Horizon Europe, InvestEU Fund, European Defence Fund and Funds under Regulation (EU) [Common Provisions Regulation]. Therefore, cumulative funding from those programmes should be foreseen, provided they do cover the same cost items, in particular through arrangements for complementary funding from Union programmes where management modalities permit - either in sequence, in an alternating way, or through the combination of funds including for the joint funding of actions, allowing, where possible, innovation partnerships and blending operations. During the implementation of the Programme, the Commission should therefore promote synergies with other related Union programmes which would allow, where possible, use of access to risk finance, innovation partnerships, cumulative or blended funding.

*Amendment*

(8) The Programme shares similar objectives with other Union programmes, notably Horizon Europe, InvestEU Fund, European Defence Fund and Funds under Regulation (EU) [Common Provisions Regulation]. Therefore, cumulative funding from those programmes should be foreseen, provided they do cover the same cost items, in particular through arrangements for complementary funding from Union programmes where management modalities permit - either in sequence, in an alternating way, or through the combination of funds including for the joint funding of actions, allowing, where possible, innovation partnerships and blending operations. During the implementation of the Programme, the Commission should therefore promote synergies with other related Union programmes which would allow, where possible, use of access to risk finance, innovation partnerships, cumulative or blended funding. ***It is important to assure continuity between the solutions developed through Horizon Europe and the other Union programmes and the components of the Space programme.***

**Amendment 8**

**Proposal for a regulation**  
**Recital 9**

*Text proposed by the Commission*

(9) The policy objectives of this Programme will also be addressed as eligible areas for financing and investment operations through financial instruments and budgetary guarantee of the InvestEU Fund, in particular under its sustainable infrastructure and research, innovation and

*Amendment*

(9) The policy objectives of this Programme will also be addressed as eligible areas for financing and investment operations through financial instruments and budgetary guarantee of the InvestEU Fund, in particular under its sustainable infrastructure and research, innovation and

digitisation policy windows. Financial support should be used to **address** market failures or sub-optimal investment situations, in a proportionate manner and actions should not duplicate or crowd out private financing or distort competition in the internal market. Actions should have a clear European added value.

digitisation policy windows. Financial support should be used to **boost investment by addressing** market failures or sub-optimal investment situations, in a proportionate manner and actions should not duplicate or crowd out private financing or distort competition in the internal market. Actions should have a clear European added value.

## Amendment 9

### Proposal for a regulation Recital 13 a (new)

*Text proposed by the Commission*

*Amendment*

***(13a) The Programme should exploit the synergies between space and transport sector, considering that space technologies play a strategic role in making land, maritime, air and space transport smarter, more efficient, safer, more secure, sustainable and integrated and at the same time a growing, innovative transport sector will increase the request of innovative and up-to-date space technologies.***

## Amendment 10

### Proposal for a regulation Recital 27

*Text proposed by the Commission*

*Amendment*

(27) As promoter of the Union's general interest, it falls to the Commission to **implement** the Programme, assume overall responsibility and promote their use. In order to optimise the resources and competences of the various stakeholders, the Commission should be able to delegate certain tasks. Moreover the Commission is the best placed to determine the **main technical and operational specifications** necessary to implement systems and

(27) As promoter of the Union's general interest, it falls to the Commission to **supervise the implementation of** the Programme, assume overall responsibility and promote their use. In order to optimise the resources and competences of the various stakeholders, the Commission should be able to delegate certain tasks. Moreover the Commission is the best placed to determine the **high-level requirements** necessary to implement



services evolution.

systems and services evolution.

## Amendment 11

### Proposal for a regulation Recital 28

#### *Text proposed by the Commission*

(28) The mission of the European Union Agency for the Space Programme ("the Agency"), which replaces and succeeds the European GNSS Agency established by Regulation (EU) No 912/2010, is to contribute to the Programme, particularly as regards security. Certain tasks linked to the security and ***promotion*** of the Programme should therefore be assigned to the Agency. In relation to security in particular, and given its experience in this area, the Agency should be responsible for the security accreditation tasks for all the Union actions in the space sector. Furthermore, it should perform the tasks which the Commission confers on it by means of one or more contribution agreements covering various other specific tasks associated with the programme.

#### *Amendment*

(28) The mission of the European Union Agency for the Space Programme("the Agency"), which replaces and succeeds the European GNSS Agency established by Regulation (EU) No 912/2010, is to contribute to the Programme, particularly as regards security, ***communication, user uptake, market development, exploitation, etc.*** Certain tasks linked to the security and ***cybersecurity*** of the Programme ***and promotion of the services and the downstream sector*** should therefore be assigned to the Agency. In relation to security in particular, and given its experience in this area, the Agency should be responsible for the security accreditation tasks for all the Union actions in the space sector. Furthermore, it should perform the tasks which the Commission confers on it by means of one or more contribution agreements covering various other specific tasks associated with the programme.

## Amendment 12

### Proposal for a regulation Recital 32

#### *Text proposed by the Commission*

(32) Owing to the importance of space-related activities for the Union economy and the lives of Union citizens, the dual-use nature of the systems and of the applications based on those systems, achieving and maintaining a high degree of security should be a key priority for the Programme, particularly in order to

#### *Amendment*

(32) Owing to the importance of space-related activities for the Union economy and the lives of Union citizens, the dual-use nature of the systems and of the applications based on those systems, achieving and maintaining a high degree of security should be a key priority for the Programme, particularly in order to

safeguard the interests of the Union and of its Member States, including in relation to classified and other sensitive non-classified information.

safeguard the interests of the Union and of its Member States **and passengers**, including in relation to classified and other sensitive non-classified information.

## Amendment 13

### Proposal for a regulation Recital 35

#### *Text proposed by the Commission*

(35) In view of the uniqueness and complexity of the Programme and its link to security, recognised and well established principles should be followed for security accreditation. It is thus indispensable that security accreditation activities be carried out on the basis of collective responsibility for the security of the Union and its Member States, by endeavouring to build consensus and involving all those concerned with the issue of security, and that a procedure for **permanent** risk monitoring be put in place. It is also imperative that technical security accreditation activities be entrusted to professionals who are duly qualified in the field of accrediting complex systems and who have an adequate level of security clearance.

#### *Amendment*

(35) In view of the uniqueness and complexity of the Programme and its link to security, recognised and well established principles should be followed for security accreditation. It is thus indispensable that security accreditation activities be carried out on the basis of collective responsibility for the security of the Union and its Member States, by endeavouring to build consensus and involving all those concerned with the issue of security, and that a **permanent** procedure for risk monitoring be put in place. It is also imperative that technical security accreditation activities be entrusted to professionals who are duly qualified in the field of accrediting complex systems and who have an adequate level of security clearance.

## Amendment 14

### Proposal for a regulation Recital 36 a (new)

#### *Text proposed by the Commission*

#### *Amendment*

**(36a) The cybersecurity of European space infrastructures, both on the ground and in space, is a key element to ensure the continuity of the systems operations, their effective ability to carry out the tasks continuously and to provide the required services.**

## Amendment 15

### Proposal for a regulation

#### Recital 38 a (new)

*Text proposed by the Commission*

*Amendment*

***(38a) When combined with enhanced communication capabilities, highly accurate satellite positioning contributes to a modern and reliable transport sector for cars, planes, and ships. It optimises fleet management, vessel traceability, collision prevention, speed control, assistance for ship manoeuvres and many other aspects related to transport.***

## Amendment 16

### Proposal for a regulation

#### Recital 40

*Text proposed by the Commission*

*Amendment*

(40) The aim of EGNOS is to improve the quality of open signals from existing global navigation satellite systems, in particular those emitted by the Galileo system. The services provided by EGNOS should cover, as a priority, the Member States' territories geographically located in Europe, including for this purpose the Azores, the Canary Islands and Madeira, with the aim to cover those territories by the end of 2025. Subject to technical feasibility and, for the safety of life, on the basis of international agreements, the geographical coverage of the services provided by EGNOS could be extended to other regions of the world. Without prejudice to Regulation [2018/XXXX] [EASA Regulation] and the necessary monitoring of Galileo service quality for aviation purposes, it should be noted that **while** the signals emitted by Galileo may effectively be used to facilitate the positioning of aircraft, only local or regional augmentation systems such as

(40) The aim of EGNOS is to improve the quality of open signals from existing global navigation satellite systems, in particular those emitted by the Galileo system. The services provided by EGNOS should cover, as a priority, the Member States' territories geographically located in Europe, including for this purpose the Azores, the Canary Islands and Madeira, with the aim to cover those territories by the end of 2025. Subject to technical feasibility and, for the safety of life, on the basis of international agreements, the geographical coverage of the services provided by EGNOS could be extended to other regions of the world. Without prejudice to Regulation [2018/XXXX] [EASA Regulation] and the necessary monitoring of Galileo service quality **and safety performance** for aviation purposes, it should be noted that the signals emitted by Galileo may effectively be used to facilitate the positioning of aircraft, only local or regional augmentation systems

EGNOS in Europe may constitute air-traffic management (ATM) services and air navigation services (ANS).

such as EGNOS in Europe may constitute air-traffic management (ATM) services and air navigation services (ANS).

*Justification*

*The proposal addresses the importance of security aspects but does not highlight enough the safety aspects that are equally important, especially for the transport sector.*

**Amendment 17**

**Proposal for a regulation  
Recital 41**

*Text proposed by the Commission*

(41) It is imperative that the continuity, sustainability and future availability of the services provided by the Galileo and EGNOS systems be ensured. In a changing environment and rapidly developing market, their development should also continue and new generations of these systems should be prepared.

*Amendment*

(41) It is imperative that the continuity, sustainability, ***safety performance*** and future availability of the services provided by the Galileo and EGNOS systems be ensured. In a changing environment and rapidly developing market, their development should also continue and new generations of these systems should be prepared.

**Amendment 18**

**Proposal for a regulation  
Recital 44 a (new)**

*Text proposed by the Commission*

*Amendment*

***(44a) In order to support the exploitation of the services provided by Galileo and EGNOS and to support the downstream services, in particular in the transport sector, the competent authorities should develop at international level, common standards and certifications.***

**Amendment 19  
Proposal for a regulation  
Recital 46**

*Text proposed by the Commission*

(46) To maximise the socio-economic benefits of Galileo and EGNOS, notably in the area of security, the use of the services provided by EGNOS and Galileo in other Union policies should be promoted ***where this is justified and beneficial.***

*Amendment*

(46) To maximise the socio-economic benefits of Galileo and EGNOS, notably in the area of ***safety and security, environmental sustainability and mobility,*** the use of the services provided by EGNOS and Galileo in other Union policies, ***in particular in the transport sector,*** should be promoted.

**Amendment 20**

**Proposal for a regulation**

**Recital 47**

*Text proposed by the Commission*

(47) Copernicus should ensure an autonomous access to environmental knowledge and key technologies for Earth observation and geo-information services, thereby enabling the Union to achieve independent decision-making and actions in the fields of the environment, climate change, civil protection, security, as well as the digital economy, among others.

*Amendment*

(47) Copernicus should ensure an autonomous access to environmental knowledge and key technologies for Earth observation and geo-information services, thereby enabling the Union to achieve independent decision-making and actions in the fields of the environment, climate change, ***transport,*** civil protection, security, as well as the digital economy, among others.

**Amendment 21**

**Proposal for a regulation**

**Recital 52**

*Text proposed by the Commission*

(52) With regard to data acquisition, the activities under Copernicus should aim at completing and maintaining the existing space infrastructure, preparing the long-term replacement of the satellites at the end of their lifetime, as well as initiating new missions addressing new observation systems to support meeting the challenge of global climate change (e.g.

*Amendment*

(52) With regard to data acquisition, the activities under Copernicus should aim at completing and maintaining the existing space ***and ground segment*** infrastructure, preparing the long-term replacement of the satellites at the end of their lifetime, as well as initiating new missions, ***whose feasibility is currently being studied by European Space Agency,*** addressing new

anthropogenic CO<sub>2</sub> and other greenhouse gas emissions monitoring). Activities under Copernicus should expand their global monitoring coverage over the polar regions and support environmental compliance assurance, statutory environmental monitoring and reporting and innovative environmental applications (e.g. for crops monitoring, water management and enhanced fire monitoring). In doing so, Copernicus should leverage and take maximum advantage of the investments made under the previous funding period (2014-2020), while exploring new operational and business models to further complement the Copernicus capacities. Copernicus should also build on successful partnerships with Member States to further develop its security dimension under appropriate governance mechanisms, in order to respond to evolving user needs in the security domain.

observation systems to support meeting the challenge of global climate change (e.g. anthropogenic CO<sub>2</sub> and other greenhouse gas emissions monitoring). Activities under Copernicus should expand their global monitoring coverage over the polar regions and support environmental compliance assurance, statutory environmental monitoring and reporting and innovative environmental applications (e.g. for crops monitoring, water management and enhanced fire monitoring). In doing so, Copernicus should leverage and take maximum advantage of the investments made under the previous funding period (2014-2020), while exploring new operational and business models to further complement the Copernicus capacities. Copernicus should also build on successful partnerships with Member States to further develop its security dimension under appropriate governance mechanisms, in order to respond to evolving user needs in the security domain.

## **Amendment 22**

### **Proposal for a regulation**

#### **Recital 61**

*Text proposed by the Commission*

(61) In the implementation of Copernicus, the Commission should rely, where appropriate, on European international organisations with which it has already established partnerships, in particular the European Space Agency for the development and procurement of space assets, data access and the operation of dedicated missions. In addition, the Commission should rely on EUMETSAT for the operation of dedicated missions in accordance with its expertise and mandate. In the domain of services, the Commission should take appropriate benefit from the specific capacities provided by Union Agencies such as the European

*Amendment*

(61) In the implementation of Copernicus, the Commission should rely, where appropriate, on European international organisations with which it has already established partnerships, in particular the European Space Agency for the development and procurement of space assets, data access and the operation of dedicated missions. In addition, the Commission should rely on EUMETSAT for the operation of dedicated missions in accordance with its expertise and mandate. In the domain of services, the Commission should take appropriate benefit from the specific capacities provided by Union Agencies such as the European

Environment Agency, the European Maritime Safety Agency, the European Border and Coast Guard Agency, as well as the intergovernmental European Centre for Medium-range Weather Forecasts and the European investments made already in marine environment monitoring services through Mercator Ocean. ***On security***, a comprehensive approach at Union level will be sought with the High Representative. The Joint Research Centre (JRC) of the Commission has been actively involved from the start of the GMES initiative and has supported developments for Galileo and space weather. Under Regulation (EU) No 377/2014; the JRC is managing the Copernicus emergency management service and the global component of the Copernicus land monitoring service; it is contributing to the review of the quality and fitness for purpose of products and information, and to the future evolution. The Commission should continue relying on JRC's scientific and technical advice for the implementation of the Programme.

Environment Agency, the European Maritime Safety Agency, the European Border and Coast Guard Agency, as well as the intergovernmental European Centre for Medium-range Weather Forecasts and the European investments made already in marine environment monitoring services through Mercator Ocean. A comprehensive approach at Union level will be sought with the High Representative ***regarding measures to combat climate change, including implementation of the Paris Agreement, as well as security issues***. The Joint Research Centre (JRC) of the Commission has been actively involved from the start of the GMES initiative and has supported developments for Galileo and space weather. Under Regulation (EU) No 377/2014; the JRC is managing the Copernicus emergency management service and the global component of the Copernicus land monitoring service; it is contributing to the review of the quality and fitness for purpose of products and information, and to the future evolution. The Commission should continue relying on JRC's scientific and technical advice for the implementation of the Programme.

## Amendment 23

### Proposal for a regulation Recital 70

#### *Text proposed by the Commission*

(70) Extreme and major space weather events may threaten the safety of citizens and disrupt the operations of space-based and ground-based infrastructure. A space weather function should therefore be established as part the Programme with an aim of assessing the space weather risks and corresponding user needs, raising the awareness of space weather risks, ensuring the delivery of user-driven space weather services, and improving Member States capabilities to produce space weather

#### *Amendment*

(70) Extreme and major space weather events may threaten the safety of citizens and disrupt the operations of space-based and ground-based infrastructure. A space weather function should therefore be established as part the Programme with an aim of assessing the space weather risks and corresponding user needs, raising the awareness of space weather risks, ensuring the delivery of user-driven space weather services, and improving Member States capabilities to produce space weather

service. The Commission should prioritise the sectors to which the operational space weather services are to be provided taking into account the user needs, risks and technological readiness. In the long term, the needs of other sectors may be addressed. The delivery of services at Union level according to the users' needs will require targeted, coordinated and continued research and development activities to support space weather services evolution. The delivery of the space weather services should build on the existing national and Union capabilities and enable a broad participation of Member States and involvement of the private sector.

service. The Commission should prioritise the sectors to which the operational space weather services are to be provided taking into account the user needs, risks and technological readiness. In the long term, the needs of other sectors may be addressed. The delivery of services at Union level according to the users' needs will require targeted, coordinated and continued research and development activities to support space weather services evolution. The delivery of the space weather services should build on the existing national and Union capabilities and enable a broad participation of Member States, ***international organisations*** and involvement of the private sector.

#### *Justification*

*The change is proposed to enable to rely on the existing space weather capacities of organisations such as ESA or EUMETSAT.*

## **Amendment 24**

### **Proposal for a regulation**

#### **Recital 71**

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

(71) The Commission White Paper on the future of Europe<sup>25</sup>, the Rome Declaration of the Heads of State and Government of 27 EU Member States<sup>26</sup>, and several European Parliament resolutions, recall that the EU has a major role to play in ensuring a safe, secure and resilient Europe that is capable to address challenges such as regional conflicts, terrorism, cyber threats, and growing migration pressures. Secure and guaranteed access to satellite communications is an indispensable tool for security actors, and pooling and sharing of this key security resource at Union level ***strengthens a Union that protects its citizens.***

##### *Amendment*

(71) The Commission White Paper on the future of Europe<sup>25</sup>, the Rome Declaration of the Heads of State and Government of 27 EU Member States<sup>26</sup>, and several European Parliament resolutions, recall that the EU has a major role to play in ensuring a ***sustainable***, safe, secure and resilient Europe that is capable to address challenges such as ***climate change***, regional conflicts, terrorism, cyber threats, and growing migration pressures. Secure and guaranteed access to satellite communications is an indispensable tool for security actors, and pooling and sharing of this key security resource at Union level.



[https://ec.europa.eu/commission/sites/beta-political/files/white\\_paper\\_on\\_the\\_future\\_of\\_europe\\_en.pdf](https://ec.europa.eu/commission/sites/beta-political/files/white_paper_on_the_future_of_europe_en.pdf)

[http://www.consilium.europa.eu/uedocs/cms\\_data/docs/pressdata/en/intm/146072.pdf](http://www.consilium.europa.eu/uedocs/cms_data/docs/pressdata/en/intm/146072.pdf)

[https://ec.europa.eu/commission/sites/beta-political/files/white\\_paper\\_on\\_the\\_future\\_of\\_europe\\_en.pdf](https://ec.europa.eu/commission/sites/beta-political/files/white_paper_on_the_future_of_europe_en.pdf)

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## Amendment 25

### Proposal for a regulation Recital 76

#### *Text proposed by the Commission*

(76) In the first phase of GOVSATCOM (roughly until 2025) existing capacity from private actors and Member States will be used. In this first phase services will be introduced in a stepped approach, ***first to Union-level users***. If in the course of the first phase a detailed analysis of future supply and demand reveals that this approach is insufficient to cover the evolving demand, the decision may be taken to move to a second phase and develop additional bespoke space infrastructure or capabilities through one or several public-private partnerships, e.g. with Union satellite operators.

#### *Amendment*

(76) In the first phase of GOVSATCOM (roughly until 2025) existing capacity from private actors and Member States will be used. In this first phase services will be introduced in a stepped approach. If in the course of the first phase a detailed analysis of future supply and demand reveals that this approach is insufficient to cover the evolving demand, the decision may be taken to move to a second phase and develop additional bespoke space infrastructure or capabilities through one or several public-private partnerships, e.g. with Union satellite operators.

## Amendment 26

### Proposal for a regulation Recital 78

#### *Text proposed by the Commission*

(78) For users of satellite communications the user equipment is the all-important operational interface. The EU GOVSATCOM approach ***makes*** it possible for ***most*** users to continue ***to use*** their existing user equipment for

#### *Amendment*

(78) For users of satellite communications the user equipment is the all-important operational interface. The EU GOVSATCOM approach ***should make*** it possible for users to continue ***using*** their existing user equipment for

GOVSATCOM services *in so far as they make use of Union technologies*.

GOVSATCOM services.

## Amendment 27

### Proposal for a regulation

#### Recital 86

*Text proposed by the Commission*

(86) Infrastructure dedicated to the Programme may require additional research and innovation, which may be supported under Horizon Europe, aiming for coherence with activities in this domain by the European Space Agency. Synergies with Horizon Europe should ensure that research and innovation needs of the space sector are identified and established as part of the strategic research and innovation planning process. Space data and services made freely available by the Programme will be used to develop breakthrough solutions through research and innovation, including in Horizon Europe, in particular for *sustainable food and natural resources, climate monitoring, smart cities, automated vehicles, security and disaster management*. The strategic planning process under Horizon Europe will identify research and innovation activities that should make use of Union-owned infrastructures such as Galileo, EGNOS and Copernicus. Research infrastructures, in particular in situ observing networks will constitute essential elements of the in situ observation infrastructure enabling the Copernicus services

*Amendment*

(86) Infrastructure dedicated to the Programme may require additional research and innovation, which may be supported under Horizon Europe, aiming for coherence with activities in this domain by the European Space Agency. Synergies with Horizon Europe should ensure that research and innovation needs of the space sector are identified and established as part of the strategic research and innovation planning process. ***It is important to assure continuity between the solutions developed through Horizon Europe and the operations of the Space programme components.*** Space data and services made freely available by the Programme will be used to develop breakthrough solutions through research and innovation, including in Horizon Europe, ***on the main European policies***, in particular for ***the transport sector***. The strategic planning process under Horizon Europe will identify research and innovation activities that should make use of Union-owned infrastructures such as Galileo, EGNOS and Copernicus. Research infrastructures, in particular in situ observing networks will constitute essential elements of the in situ observation infrastructure enabling the Copernicus services.

## Amendment 28

### Proposal for a regulation

#### Recital 87

(87) Regulation (EU) No 912/2010 established a Union agency, called the European GNSS Agency, to manage certain aspects of the Galileo and EGNOS satellite navigation programmes. The present Regulation provides in particular that the European GNSS Agency will be entrusted with new tasks, not only in respect of Galileo and EGNOS but also for other components of the Programme, especially security accreditation. The name, tasks and organisational aspects of the European GNSS Agency must therefore be adapted accordingly.

(87) Regulation (EU) No 912/2010 established a Union agency, called the European GNSS Agency, to manage certain aspects of the Galileo and EGNOS satellite navigation programmes. The present Regulation provides in particular that the European GNSS Agency will be entrusted with new tasks, not only in respect of Galileo and EGNOS but also for other components of the Programme, especially security accreditation **and cybersecurity**. The name, tasks and organisational aspects of the European GNSS Agency must therefore be adapted accordingly.

## **Amendment 29**

### **Proposal for a regulation Recital 88**

(88) In view of its extended scope, which will no longer be limited to Galileo and EGNOS, the European GNSS Agency should henceforth be changed. However, the continuity of the activities of the European GNSS Agency, including continuity as regards rights and obligations, staff and the validity of any decisions taken, should be ensured under the Agency.

(88) In view of its extended scope, which will no longer be limited to Galileo and EGNOS, the European GNSS Agency should henceforth be changed. ***Where it entrusts tasks to the Agency, the Commission shall ensure appropriate funding for the management and execution of those tasks, including adequate human and financial resources.*** However, the continuity of the activities of the European GNSS Agency, including continuity as regards rights and obligations, staff and the validity of any decisions taken, should be ensured under the Agency.

## **Amendment 30**

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

*Text proposed by the Commission*

(2) ‘space weather events’ means naturally occurring variations in the space environment between the Sun and the Earth, including solar flares, solar energetic particles, solar wind, and coronal mass ejections that can lead to solar storms (geomagnetic storms, solar radiation storms and ionospheric disturbances) potentially impacting Earth;

*Amendment*

(2) ‘space weather events’ means naturally occurring variations in the space environment between the Sun and the Earth, including solar flares, solar energetic particles, solar wind, and coronal mass ejections that can lead to solar storms (geomagnetic storms, solar radiation storms and ionospheric disturbances) potentially impacting Earth ***and space-based infrastructure***;

**Amendment 31**

**Proposal for a regulation**

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

*Text proposed by the Commission*

(10) ‘SST data’ means physical parameters of space objects acquired by SST sensors or orbital parameters of space objects derived from SST sensors' observations in the framework of the space surveillance and tracking ('SST') component;

*Amendment*

(10) ‘SST data’ means physical parameters of space objects ***and space debris*** acquired by SST sensors or orbital parameters of space objects derived from SST sensors' observations in the framework of the space surveillance and tracking ('SST') component;

**Amendment 32**

**Proposal for a regulation**

**Article 2 – paragraph 1 – point 19**

*Text proposed by the Commission*

(19) ‘SST sensor’ means a device or a combination of devices, ground-based or space-based radars, lasers and telescopes, that is able to measure physical parameters related to space objects, such as size, location and speed;

*Amendment*

(19) ‘SST sensor’ means a device or a combination of devices, ground-based or space-based radars, lasers and telescopes, that is able to measure physical parameters related to space objects ***and space debris***, such as size, location and speed;

## Amendment 33

### Proposal for a regulation

#### Article 3 – paragraph 2

*Text proposed by the Commission*

Additionally, the Programme shall include measures for ensuring *efficient* access to space *for the Programme and* for fostering an innovative space sector.

*Amendment*

Additionally, the Programme shall include measures for ensuring *autonomous* access to space, *for tackling cyber threats*, for fostering an innovative *and competitive* space sector *and for supporting space diplomacy*.

## Amendment 34

### Proposal for a regulation

#### Article 4 – paragraph 1 – point a

*Text proposed by the Commission*

(a) provide, or contribute to the provision of, high-quality and up-to-date and, where appropriate, secure space-related data, information and services without interruption and wherever possible at global level, *meeting existing and future needs and able to meet the Union's political priorities, including as regards climate change and security and defence*;

*Amendment*

(a) provide, or contribute to the provision of, high-quality and up-to-date and, where appropriate, secure space-related data, information and services without interruption and wherever possible at global level, *support evidence-based decision-making capacity of the Union and its Member States*;

## Amendment 35

### Proposal for a regulation

#### Article 4 – paragraph 1 – point a a (new)

*Text proposed by the Commission*

*Amendment*

(aa) *strengthen the effort to meet existing and future needs and the Union's political priorities, including climate change and efficient and sustainable transports*;

## Amendment 36

### Proposal for a regulation

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

*Text proposed by the Commission*

(b) maximise the socio-economic benefits, including by promoting the widest possible use of the data, information and services provided by the Programme's components;

*Amendment*

(b) maximise the socio-economic benefits, including by ***strengthening the downstream sector***, promoting ***and ensuring*** the widest possible use of the data, information and services provided by the Programme's components;

## Amendment 37

### Proposal for a regulation

#### Article 4 – paragraph 1 – point c

*Text proposed by the Commission*

(c) enhance the security of the Union ***and*** its Member States, ***its freedom of action and*** its strategic autonomy, in particular in ***terms of technologies and evidence-based decision-making***;

*Amendment*

(c) enhance the security, ***including the cyber security and the safety*** of the Union, its Member States ***and its citizens***, its strategic autonomy, in particular in ***industrial and technological terms***;

## Amendment 38

### Proposal for a regulation

#### Article 4 – paragraph 1 – point c a (new)

*Text proposed by the Commission*

*Amendment*

(ca) ***recognise and promote the contribution to the safety, in particular in the transport sector***;

## Amendment 39

### Proposal for a regulation

#### Article 4 – paragraph 1 – point d

*Text proposed by the Commission*

(d) promote the role of the Union in the international arena as a leading actor in the space sector and strengthening its role in tackling global challenges and supporting global initiatives, including with regards to climate change and sustainable development.

*Amendment*

(f) promote the role of the Union in the international arena as a leading actor in the space sector and strengthening its role in tackling global challenges and supporting global initiatives, including with regards to climate change and sustainable development ***of all concerned sectors in particular in the transport sector.***

**Amendment 40**

**Proposal for a regulation**

**Article 4 – paragraph 1 – point d a (new)**

*Text proposed by the Commission*

*Amendment*

***(da) strengthen Union's space diplomacy, encourage international cooperation to raise awareness of space, promote European technology and industry and foster the principle of reciprocity and fair competition at international level.***

**Amendment 41**

**Proposal for a regulation**

**Article 4 – paragraph 1 – point d b (new)**

*Text proposed by the Commission*

*Amendment*

***(db) enhance the safety of the Union and its Member States in various fields, in particular in transportation (aviation, including UAV, rail transports, navigation, road transports, autonomous driving), infrastructure building and monitoring, land monitoring and environment;***

**Amendment 42**  
**Proposal for a regulation**  
**Article 4 – paragraph 1 – point d c (new)**

*Text proposed by the Commission*

*Amendment*

**(dc) promote the continuation of the launcher programme in Europe in the medium and long term;**

**Amendment 43**

**Proposal for a regulation**  
**Article 4 – paragraph 2 – point a**

*Text proposed by the Commission*

*Amendment*

(a) for Galileo and EGNOS: to provide **of** state-of-the-art and, where appropriate, secure positioning, navigation and timing services;

(a) for Galileo and EGNOS: to provide **on a long-term basis** state-of-the-art and, where appropriate, secure positioning, navigation and timing services **and ensuring the continuity of the services;**

**Amendment 44**  
**Proposal for a regulation**  
**Article 4 – paragraph 2 – point b**

*Text proposed by the Commission*

*Amendment*

(b) for Copernicus: to deliver accurate and reliable Earth Observation data and information, supplied on a long-term basis, to support the implementation and monitoring of the Union and its Member States' policies in the fields of the environment, climate change, agriculture and rural development, civil protection, safety and security, as well as the digital economy;

(b) for Copernicus: to deliver accurate and reliable Earth Observation data and information, supplied on a long-term basis, to support the implementation and monitoring of the Union and its Member States' policies in the fields of the environment, climate change, **sustainability, transport, automation,** agriculture and rural development, civil protection, **internal and external** safety and security, as well as the digital economy **and the blue economy;**

**Amendment 45**



**Proposal for a regulation**  
**Article 4 – paragraph 2 – point c**

*Text proposed by the Commission*

(c) for Space Situational Awareness ('SSA'): to enhance SST capabilities to monitor, track and identify space objects, to monitor space weather and to map and network Member States NEO capacities;

*Amendment*

(c) for Space Situational Awareness ('SSA'): to enhance SST capabilities to monitor, track and identify space objects **and space debris**, to monitor space weather and to map and network Member States NEO capacities;

**Amendment 46**

**Proposal for a regulation**  
**Article 4 – paragraph 2 – point e**

*Text proposed by the Commission*

(e) to contribute, **where this is required for the needs of the Programme**, to an autonomous, secure and cost-efficient capability to access space;

*Amendment*

(e) to contribute to an autonomous, secure and cost-efficient capability to access space;

**Amendment 47**

**Proposal for a regulation**  
**Article 4 – paragraph 2 – point f**

*Text proposed by the Commission*

(f) support and reinforce the competitiveness, entrepreneurship, skills and capacity to innovate of legal and natural persons from the Union active or wishing to become active in that sector, with particular regard to the position and needs of small and medium-sized enterprises and start-ups.

*Amendment*

(f) support and reinforce the competitiveness, entrepreneurship, skills and capacity to innovate of legal and natural persons from the Union active or wishing to become active in that sector, with particular regard to the position and needs of small and medium-sized enterprises and start-ups **and to the common interest to build and use expertise in various regions of the Union.**

**Amendment 48**

**Proposal for a regulation**  
**Article 4 – paragraph 2 – point f a (new)**

*Text proposed by the Commission*

*Amendment*

*(fa) foster the development of a competitive Union space economy and maximise opportunities for Union enterprises of all sizes, in particular small and medium-sized enterprises, new entrants and start-ups, to develop and provide innovative space systems and services;*

**Amendment 49**  
**Proposal for a regulation**  
**Article 5 – paragraph 1 – point a**

*Text proposed by the Commission*

*Amendment*

(a) provision of launching services for the needs of the Programme;

(a) provision of launching services for the needs of the Programme *including aggregate launching services for the EU and for other entities, at their request, taking into account the essential security interests of the Union in accordance with Article 25;*

**Amendment 50**

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

*Text proposed by the Commission*

*Amendment*

(b) development activities linked to autonomous, reliable and cost-efficient access to space;

(b) development activities linked to autonomous, reliable and cost-efficient access to space *including alternative launching technologies and innovative systems or services, taking into account the essential security interests of the Union and its Member States, as referred to in Article 25;*

## Amendment 51

### Proposal for a regulation

#### Article 5 – paragraph 1 – point c

*Text proposed by the Commission*

(c) where this is required for the ***needs*** of the Programme, the necessary ***adaptations*** to the space ground infrastructure.

*Amendment*

(c) where this is required for the ***objectives*** of the Programme, the necessary ***support*** to the space ground infrastructure.

## Amendment 52

### Proposal for a regulation

#### Article 6 – paragraph 1 – introductory part

*Text proposed by the Commission*

The Programme shall ***support***:

*Amendment*

The Programme shall ***promote***:

## Amendment 53

### Proposal for a regulation

#### Article 6 – paragraph 1 – point a

*Text proposed by the Commission*

(a) innovation activities for making best use of space technologies, infrastructure or services;

*Amendment*

(a) innovation activities for making best use of space technologies, infrastructure or services, ***taking account of the essential interests of the Union and its Member States referred to in Article 25***;

## Amendment 54

### Proposal for a regulation

#### Article 6 – paragraph 1 – point b

*Text proposed by the Commission*

(b) the establishment of space-related innovation partnerships to develop innovative products or services and for the

*Amendment*

(b) the establishment of ***national, cross-border and multinational*** space-related innovation partnerships to develop

subsequent purchase of the resulting **supply** or services;

innovative products or services and for the subsequent purchase of the resulting **products** or services **for the needs of the programme, taking account of the essential interests of the Union and its Member States referred to in Article 25;**

## Amendment 55

### Proposal for a regulation

#### Article 6 – paragraph 1 – point b a (new)

*Text proposed by the Commission*

*Amendment*

**(ba) synergies with other European Funds such as Horizon EU, Cohesion Fund, InvestEU, ERDF in order to support the development of downstream application in all sectors;**

## Amendment 56

### Proposal for a regulation

#### Article 6 – paragraph 1 – point d

*Text proposed by the Commission*

*Amendment*

(d) cooperation between undertakings in the form of space hubs bringing together, at regional and national **levels**, actors from the space and digital sectors, as well as users, and providing support to citizens and companies to foster entrepreneurship and skills;

(d) cooperation between undertakings **themselves and also** in the form **of a network** of space hubs bringing together, **at regional, national and Union level**, actors from the space and digital sectors, as well as users, and providing support, **facilities and services**, to citizens and companies to foster entrepreneurship and skills; **foster cooperation between the space hubs and the digital innovation hubs established under the Digital Europe Programme;**

## Amendment 57

### Proposal for a regulation

#### Article 6 – paragraph 1 – point d a (new)

*(da) Synergies with the transport, space and digital sectors in order to foster the broader use of new technologies (such as e-call, digital tachograph, traffic supervisions and management, autonomous driving, unmanned vehicles and drones) and tackle the needs of secure and seamless connectivity, robust positioning, inter modality and interoperability, thus enhancing the competitiveness of transport services and industry;*

## **Amendment 58**

### **Proposal for a regulation Article 10 – title**

*Text proposed by the Commission*

*Amendment*

*Absence of* guarantee

Guarantee

## **Amendment 59**

### **Proposal for a regulation Article 10 – paragraph 1**

*Text proposed by the Commission*

*Amendment*

The services, data and information provided by the Programme's components shall be provided without any express or implied guarantee as regards their quality, accuracy, availability, reliability, speed and suitability for any purpose. To that aim, the Commission shall take the necessary steps to ensure that the users of those services, data and information are informed, in an appropriate manner, of the absence of any such guarantee.

The services, data and information provided by the Programme's components shall be provided without any express or implied guarantee as regards their quality, accuracy, availability, reliability, speed and suitability for any purpose, ***unless such guarantee is required by applicable Union law for the provision of the concerned services***. To that aim, the Commission shall take the necessary steps to ensure that the users of those services, data and information are informed, in an appropriate manner, of the absence of any such

guarantee.

## **Amendment 60**

### **Proposal for a regulation**

#### **Article 11 – paragraph 1 – subparagraph 1**

*Text proposed by the Commission*

The financial envelope for the implementation of the Programme for the period 2021 – 2027 shall be EUR **[16]** billion in current prices.

*Amendment*

The financial envelope for the implementation of the Programme for the period 2021 – 2027 shall be EUR **[16.7]** billion in current prices.

## **Amendment 61**

### **Proposal for a regulation**

#### **Article 11 – paragraph 1 – subparagraph 2 – point c**

*Text proposed by the Commission*

(c) for **SSA/GOVSATCOM: EUR [0,5]** billion.

*Amendment*

(c) for **SSA: EUR [0,6]** billion;

## **Amendment 62**

### **Proposal for a regulation**

#### **Article 11 – paragraph 1 – subparagraph 2 – point c a (new)**

*Text proposed by the Commission*

*Amendment*

**(ca) GOVSATCOM: EUR [0,6] billion.**

## **Amendment 63**

### **Proposal for a regulation**

#### **Article 11 – paragraph 2**

*Text proposed by the Commission*

*Amendment*

2. Cross-cutting activities as foreseen by Article 3 shall be financed under the Programme's components.

2. Cross-cutting activities as foreseen by Article 3, **5 and 6** shall be financed under the Programme's components.

**Amendment 64**  
**Proposal for a regulation**  
**Article 14 – paragraph 1 – point c**

*Text proposed by the Commission*

(c) by derogation from Article 167 of the Financial Regulation, to use, wherever appropriate, multiple supply sources in order to ensure better overall control of all the components of the Programme, their cost and schedule;

*Amendment*

(c) by derogation from Article 167 of the Financial Regulation, to use, wherever appropriate, multiple supply sources in order to ensure better overall control of all the components of the Programme, their cost, ***quality*** and schedule;

**Amendment 65**

**Proposal for a regulation**  
**Article 14 – paragraph 1 – point d**

*Text proposed by the Commission*

(d) to foster the autonomy of the Union, in particular in technological terms;

*Amendment*

(d) to foster the autonomy of the Union, in particular in technological terms, ***throughout the entire value chain***;

**Amendment 66**

**Proposal for a regulation**  
**Article 17 – paragraph 2**

*Text proposed by the Commission*

2. The contracting authority shall express the requisite share of the contract to be subcontracted in the form of a range from a minimum to a maximum percentage.

*Amendment*

2. The contracting authority shall express the requisite share of the contract to be subcontracted in the form of a range from a minimum to a maximum percentage, ***taking account of the essential interests of the Union and its Member States referred to in Article 25.***

**Amendment 67**

**Proposal for a regulation**  
**Article 24 – paragraph 1**

*Text proposed by the Commission*

1. In addition to the provisions of [Article 165] of the Financial Regulation, the Commission **and** the Agency may carry out joint procurement procedures with the European Space Agency or other international organisations involved in implementing the components of the Programme.

*Amendment*

1. In addition to the provisions of [Article 165] of the Financial Regulation, the Commission **and/or** the Agency may carry out joint procurement procedures with the European Space Agency or other international organisations involved in implementing the components of the Programme.

**Amendment 68**

**Proposal for a regulation**

**Article 27 – paragraph 1 – point c a (new)**

*Text proposed by the Commission*

*Amendment*

**(ca) systematic consideration of the objective of continuity of services as an absolute priority;**

**Amendment 69**

**Proposal for a regulation**

**Article 27 – paragraph 1 – point d**

*Text proposed by the Commission*

*Amendment*

(d) systematic consideration of the needs of users of the services provided by the Programme's components, as well as of scientific and technological evolutions relating to those services;

(d) systematic consideration of the needs of users, **in particular the continuity of services and the stability of the interfaces** of the services provided by the Programme's components, as well as of scientific and technological evolutions relating to those services;

**Amendment 70**

**Proposal for a regulation**

**Article 28 – paragraph 1**

*Text proposed by the Commission*

*Amendment*

1. The Member States may participate in the Programme by contributing with

1. The Member States may participate in the Programme by contributing with



their technical competence, know-how and assistance, in particular in the field of safety and security, and, where necessary, by making available to the Union the information and infrastructure in their possession or located on their territory, including by ensuring an efficient and obstacle free access and use of in-situ data and cooperating with the Commission to improve the availability of in-situ data required by the Programme.

their technical competence, know-how and assistance, in particular in the field of safety and security, ***sustainable transports and Programme components' applications*** and, where necessary, by making available to the Union the information and infrastructure in their possession or located on their territory, including by ensuring an efficient and obstacle free access and use of in-situ data and cooperating with the Commission to improve the availability of in-situ data required by the Programme.

## Amendment 71

### Proposal for a regulation Article 29 – paragraph 1

#### *Text proposed by the Commission*

1. The Commission shall have overall responsibility for the implementation of the Programme, ***including*** in the field of security. It shall, in accordance with this Regulation, determine the priorities and long-term evolution of the Programme and shall supervise its implementation, having due regard to its impact on other policies of the Union.

#### *Amendment*

1. The Commission shall have overall responsibility for the implementation of the Programme, ***and the responsibility*** in the field of security ***for the components of the Programme not entrusted to the Agency pursuant to Article 30.*** It shall, in accordance with this Regulation, determine the priorities and long-term evolution of the Programme and shall supervise its implementation, having due regard to its impact on other policies of the Union.

## Amendment 72

### Proposal for a regulation Article 29 – paragraph 2

#### *Text proposed by the Commission*

2. The Commission shall manage the component of the Programme where such management ***is not entrusted*** to another entity.

#### *Amendment*

2. The Commission shall manage the component of the Programme ***only*** where ***it will achieve the objectives of the component of the Programme more effectively than by entrusting*** such management to another entity. ***In other cases, the Commission shall delegate the***

*management of the component of the Programme to the Agency, to the European Space Agency or to other entities referred to in Article 32.*

## Amendment 73

### Proposal for a regulation Article 29 – paragraph 4

#### *Text proposed by the Commission*

4. When necessary for the smooth functioning of the Programme and the smooth provision of the services provided by the Programme's components, the Commission shall, by means of **implementing** acts, determine **the technical and operational specifications required** for the implementation of and evolution of those components and of the services they provide after having consulted users and all the other relevant stakeholders. When determining those **technical and operational specifications**, the Commission shall avoid reducing the general security level and to meet a backward compatibility imperative.

Those **implementing** acts shall be adopted in accordance with the examination procedure referred to in Article 107(3).

#### *Amendment*

4. When necessary for the smooth functioning of the Programme and the smooth provision of the services provided by the Programme's components, the Commission shall, by means of **delegated** acts, determine **high-level requirements**, for the implementation of and evolution of those components and of the services they provide after having consulted users, **downstream players**, and all the other relevant stakeholders. When determining those **high-level requirements**, the Commission shall avoid reducing the general security level and to meet a backward compatibility imperative.

Those **delegated** acts shall be adopted in accordance with the examination procedure referred to in Article 107(3).

## Amendment 74

### Proposal for a regulation Article 29 – paragraph 5

#### *Text proposed by the Commission*

5. The Commission shall **promote and ensure** the uptake and use of the data and services provided by the Programme's components in the public and private sectors, including by supporting appropriate development of those services and by fostering a stable long-term

#### *Amendment*

5. The Commission shall **contribute to and supervise** the uptake and use of the data and services provided by the Programme's components in the public and private sectors, including by supporting appropriate development of those services **and, where appropriate, the development**

environment. It shall develop synergies between the applications of the various components of the Programme. It shall ensure complementarity, consistency, synergies and links between the Programme and other Union actions and programmes.

*of the corresponding standards at EU level* and by fostering a stable long-term environment. It shall develop synergies between the applications of the various components of the Programme. It shall ensure complementarity, consistency, synergies and links between the Programme and other Union actions and programmes, ***including, where appropriate, by ensuring the compatibility and the interoperability between those services and projects financed by other Union actions and programmes.***

## **Amendment 75**

### **Proposal for a regulation**

#### **Article 29 – paragraph 6**

*Text proposed by the Commission*

6. Where appropriate, it shall ensure the coordination with activities carried out in the space sector at Union, national and international level. ***It*** shall encourage cooperation between the Member States and promote convergence of their technological capacities and developments in the space domain.

*Amendment*

6. Where appropriate, ***and in cooperation with the Agency and ESA***, it shall ensure the coordination with activities carried out in the space sector at Union, national and international level. ***They*** shall encourage cooperation between the Member States and promote convergence of their technological capacities and developments in the space domain.

## **Amendment 76**

### **Proposal for a regulation**

#### **Article 30 – paragraph 1 – point a (new)**

*Text proposed by the Commission*

*Amendment*

***(aa) coordinate the cyber security of the Programme;***

## **Amendment 77**

**Proposal for a regulation**  
**Article 30 – paragraph 1 – point a b (new)**

*Text proposed by the Commission*

*Amendment*

*(ab) promote and ensure the uptake and use of the data and services provided by the Programme's components, with particular regard for the transport sector, including by implementing activities relating to the development of downstream applications and services, tailored to users' needs, based on the components of the Programme;*

**Amendment 78**

**Proposal for a regulation**  
**Article 30 – paragraph 1 – point a c (new)**

*Text proposed by the Commission*

*Amendment*

*(ac) implement actions in support of an innovative Union space sector in accordance with Article 6, in cooperation with the Commission and the downstream sector, including by facilitating access to finance through the financial instruments provided under Title III, as well as, in cooperation with the European Investment Bank (EIB), through the financial instruments established by the EIB that are aimed at SMEs in particular;*

**Amendment 79**

**Proposal for a regulation**  
**Article 30 – paragraph 1 – point a d (new)**

*Text proposed by the Commission*

*Amendment*

*(ad) define and recommend to the Commission the priorities of space domain of Horizon Europe and manage space R&D activities financed by Horizon Europe, in the part of its competence.*

## Amendment 80

### Proposal for a regulation

#### Article 30 – paragraph 1 – point a e (new)

*Text proposed by the Commission*

*Amendment*

**(ae) promote the exploitations of the synergies between the space and the transport sectors;**

## Amendment 81

### Proposal for a regulation

#### Article 30 – paragraph 1 – point c

*Text proposed by the Commission*

*Amendment*

(c) undertake communication and promotion activities, **and activities relating to the commercialisation of** the services offered by Galileo **and** EGNOS;

(c) undertake communication and promotion activities, **in particular in regard with** the services offered by Galileo, EGNOS **and Copernicus**;

## Amendment 82

### Proposal for a regulation

#### Article 30 – paragraph 1 – point c a (new)

*Text proposed by the Commission*

*Amendment*

**(ca) managing the exploitation of EGNOS and Galileo, as referred to in Article 43;**

## Amendment 83

### Proposal for a regulation

#### Article 30 – paragraph 1 – point d

*Text proposed by the Commission*

*Amendment*

(d) provide technical expertise to the

(d) provide technical expertise to the

Commission.

Commission, *where this does not duplicate the role of the European Space Agency as set out in Article 31.*

#### **Amendment 84**

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

##### **Article 30 – paragraph 2 – point a**

*Text proposed by the Commission*

*Amendment*

*(a) managing the exploitation of EGNOS and Galileo, as referred to in Article 43;*

*deleted*

#### **Amendment 85**

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

##### **Article 30 – paragraph 2 – point c**

*Text proposed by the Commission*

*Amendment*

*(c) implementing activities relating to the development of downstream applications and services based on the components of the Programme.*

*deleted*

#### **Amendment 86**

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

##### **Article 30 – paragraph 3**

*Text proposed by the Commission*

*Amendment*

3. The Commission may entrust other tasks to the Agency, including undertaking communication, promotion, and marketing of data and information activities, as well as other activities related to user uptakes with regard to the Programme's components other than Galileo *and* EGNOS.

3. The Commission may entrust other tasks to the Agency, including undertaking communication, promotion, and marketing of data and information activities, as well as other activities related to user uptakes with regard to the Programme's components other than Galileo, EGNOS *and Copernicus.*

## **Amendment 87**

### **Proposal for a regulation Article 30 – paragraph 4**

*Text proposed by the Commission*

4. The tasks referred to in paragraphs 2 and 3 shall be entrusted by the Commission by means of a contribution agreement in accordance with [Article 2(18)] and [Title VI] of the Financial Regulation.

*Amendment*

4. The tasks referred to in paragraphs 2 and 3 shall be entrusted by the Commission by means of a contribution agreement in accordance with [Article 2(18)] and [Title VI] of the Financial Regulation ***and shall be reviewed in accordance with Article 102(6) of this Regulation.***

## **Amendment 88**

### **Proposal for a regulation Article 30 – paragraph 4 a (new)**

*Text proposed by the Commission*

*Amendment*

***4a. Where it entrusts tasks to the Agency, the Commission shall ensure appropriate funding for the management and execution of those tasks, including adequate human and financial resources.***

## **Amendment 89**

### **Proposal for a regulation Article 31 – paragraph 1 – point b**

*Text proposed by the Commission*

(b) as regards Galileo and EGNOS: systems evolution, development of the ground segment and the design and development of satellites;

*Amendment*

(b) as regards Galileo and EGNOS: ***technical support to the Agency in the discharge of its delegated tasks referred to in Article 30 and, when so provided in specific sub-delegation agreements concluded between the Agency and the European Space Agency pursuant to the***

*financial framework partnership agreement under paragraph 2 of this Article, procurement in the name and on behalf of the Union of systems evolution, development of the ground segment and the design and development of satellites;*

## Amendment 90

### Proposal for a regulation

#### Article 31 – paragraph 1 – point c a (new)

*Text proposed by the Commission*

*Amendment*

*(ca) encouraging cooperation between the Member States and promoting convergence of their technological capacities and developments in the space domain.*

## Amendment 91

### Proposal for a regulation

#### Article 31 – paragraph 2 – indent 1

*Text proposed by the Commission*

*Amendment*

– clearly define the responsibilities and obligations of the European Space Agency with regard to the Programme;

– clearly define the responsibilities and obligations of the **Commission, the Agency and the** European Space Agency with regard to the Programme;

## Amendment 92

### Proposal for a regulation

#### Article 31 – paragraph 2 – indent 3

*Text proposed by the Commission*

*Amendment*

– stipulate the conditions of the management of funds entrusted to the European Space Agency, **particularly with**

– stipulate the conditions of the management of funds entrusted to the European Space Agency, **including**



*regard to* public procurement, management procedures, the expected results measured by performance indicators, applicable measures in the event of deficient or fraudulent implementation of the contracts in terms of costs, schedule and results, as well as the communication strategy and the rules regarding ownership of all tangible and intangible assets; these conditions shall be **in conformity** with Titles III and V of this regulation and the Financial Regulation;

**application of the Union** public procurement, **when it is done in the name and on behalf of the Commission or the Agency**, management procedures, the expected results measured by performance indicators, applicable measures in the event of deficient or fraudulent implementation of the contracts in terms of costs, schedule and results, as well as the communication strategy and the rules regarding ownership of all tangible and intangible assets; these conditions shall be in conformity with Titles III and V of this regulation and the Financial Regulation;

### Amendment 93

#### Proposal for a regulation

#### Article 33 – paragraph 1 – introductory part

*Text proposed by the Commission*

The security of the Programme **should** be based on the following principles:

*Amendment*

The security of the Programme **shall** be based on the following principles:

### Amendment 94

#### Proposal for a regulation

#### Article 33 – paragraph 1 – point a a (new)

*Text proposed by the Commission*

*Amendment*

(aa) **to take account of the experience gained in the operation of the Galileo, EGNOS and Copernicus;**

### Amendment 95

#### Proposal for a regulation

#### Article 33 – paragraph 1 – point a b (new)

*Text proposed by the Commission*

*Amendment*

(ab) **to cooperate with ENISA in the**

*field of cyber security;*

## Amendment 96

### Proposal for a regulation

#### Article 34 – paragraph 1 – subparagraph 1 – introductory part

*Text proposed by the Commission*

The Commission, *in its field* of competence, shall ensure a high degree of security with regard to, in particular:

*Amendment*

The Commission, *and the Agency, in their respective fields* of competence, shall ensure a high degree of security with regard to, in particular:

## Amendment 97

### Proposal for a regulation

#### Article 34 – paragraph 1 – subparagraph 2

*Text proposed by the Commission*

To that end, the Commission shall *ensure that* a risk and threat analysis *is performed for each Programme's component. Based on that* risk and threat analysis, *it* shall determine, by means of implementing acts, for each component of the Programme, the general security requirements. In doing so, *the Commission* shall take account of the impact of those requirements on the smooth functioning of that component, in particular in terms of cost, risk management and schedule, and shall ensure not to reduce the general level of security or undermine the functioning of the existing equipment based on that component. Those implementing acts shall be adopted in accordance with the examination procedure referred to in Article 107(3).

*Amendment*

To that end, the Commission shall *perform* a risk and threat analysis *for the Copernicus, SST and GOVSATCOM components and shall ensure that the Agency performs a* risk and threat analysis *for Galileo and EGNOS components.*

*On the basis of the risk and threat analysis referred to in paragraph 1, the Commission* shall determine, by means of implementing acts, for each component of

the Programme, the general security requirements. In doing so, *it* shall take account of the impact of those requirements on the smooth functioning of that component, in particular in terms of cost, risk management and schedule, and shall ensure not to reduce the general level of security or undermine the functioning of the existing equipment based on that component. ***The general security requirements shall set out the procedures to be followed whenever the security of the Union or its Member States may be affected by the operation of a component.*** Those implementing acts shall be adopted in accordance with the examination procedure referred to in Article 107(3).

**Amendment 98**  
**Proposal for a regulation**  
**Article 34 – paragraph 2**

*Text proposed by the Commission*

2. The ***entity responsible for the management of a component of the Programme*** shall be responsible for managing the security of ***that component*** and shall, to that end, carry out ***risk and threat analysis*** and all the necessary activities to ensure and monitor the security of ***that component***, in particular setting of technical specifications and operational procedures, and monitor their compliance with the general security requirements referred to in paragraph 1.

*Amendment*

2. The ***Commission*** shall be responsible for managing the security of ***the Copernicus, SST and GOVSATCOM components. The Agency shall be responsible for managing the security of the Galileo and EGNOS components.*** To that end, ***they shall*** carry out all the necessary activities to ensure and monitor the security of ***the components for which they are responsible***, in particular ***the*** setting of technical specifications and operational procedures, and ***shall*** monitor their compliance with the general security requirements referred to in ***the third subparagraph of*** paragraph 1.

**Amendment 99**

**Proposal for a regulation**  
**Article 34 – paragraph 3 – point a (new)**

**(aa) ensure the cybersecurity of the Programme;**

## **Amendment 100**

### **Proposal for a regulation**

#### **Article 42 – paragraph 1 – point a**

*Text proposed by the Commission*

(a) each Member State shall ensure that its national security regulations offer a degree of protection of European Union classified information equivalent to that provided by the rules on security as set out in Commission Decision (EU, Euratom) 2015/444 of 13 March 2015 on the security rules for protecting EU classified information<sup>30</sup> and by the security rules of the Council set out in the Annexes to Council Decision of 23 September 2013 on the security rules for protecting EU classified information<sup>31</sup>;

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<sup>30</sup> OJ L 72, 17.3.2015, p. 53-88.

<sup>31</sup> OJ L 274, 15.10.2013, p. 1-50.

*Amendment*

(a) each Member State shall ensure that its national security regulations offer a **high** degree of protection of European Union classified information equivalent to that provided by the rules on security as set out in Commission Decision (EU, Euratom) 2015/444 of 13 March 2015 on the security rules for protecting EU classified information<sup>30</sup> and by the security rules of the Council set out in the Annexes to Council Decision of 23 September 2013 on the security rules for protecting EU classified information<sup>31</sup>;

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<sup>30</sup> OJ L 72, 17.3.2015, p. 53-88.

<sup>31</sup> OJ L 274, 15.10.2013, p. 1-50.

## **Amendment 101**

### **Proposal for a regulation**

#### **Article 43 – paragraph 1 – point b**

*Text proposed by the Commission*

(b) the management, maintenance, continuous improvement, evolution and protection of the ground-based infrastructure, in particular networks, sites and support facilities, including upgrades and obsolescence management;

*Amendment*

(b) the management, maintenance, continuous improvement, evolution and protection of the ground-based infrastructure, **including the completion of the ground-based infrastructure located outside the EU territory but necessary for providing EGNOS full coverage of the**

*territories of Member States  
geographically located in Europe, in  
particular networks, sites and support  
facilities, including upgrades and  
obsolescence management;*

#### **Amendment 102**

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

##### **Article 43 – paragraph 1 – point b a (new)**

*Text proposed by the Commission*

*Amendment*

*(ba) the development and evolution of  
fundamental elements, such as Galileo-  
enabled chipsets and receivers;*

#### **Amendment 103**

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

##### **Article 43 – paragraph 1 – point d**

*Text proposed by the Commission*

*Amendment*

(d) certification and standardisation  
operations;

(d) **performance oversight,**  
certification and standardisation  
operations;

#### **Amendment 104**

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

##### **Article 43 – paragraph 1 – point h a (new)**

*Text proposed by the Commission*

*Amendment*

*(ha) actions aiming to mitigate the  
likelihood of occurrence of Radio  
Frequency Interference events;*

#### **Amendment 105**

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

##### **Article 44 – paragraph 2 – point c a (new)**

(ca) *navigation services for aviation by means of adequate augmentation systems (on board or ground).*

## **Amendment 106**

### **Proposal for a regulation**

#### **Article 45 – paragraph 1 – point b**

*Text proposed by the Commission*

(b) EGNOS data access service (EDAS), which shall provide positioning and synchronisation information intended mainly for satellite navigation applications for professional or commercial use, offering improved performance and data with greater added value than those obtained through the EOS;

*Amendment*

(b) EGNOS data access service (EDAS), which shall ***be free of charge for the user and*** provide positioning and synchronisation information intended mainly for satellite navigation applications for professional or commercial use, offering improved performance and data with greater added value than those obtained through the EOS;

## **Amendment 107**

### **Proposal for a regulation**

#### **Article 45 – paragraph 1 – point c**

*Text proposed by the Commission*

(c) a safety-of-life (SoL) service, which shall be free of direct user charges and shall provide positioning and synchronisation information with a high level of continuity, availability and accuracy, including an integrity message alerting users to any failure in, or out-of-tolerance signals emitted by, Galileo and other GNSSs which it augments in the coverage area, intended mainly for users for whom safety is essential, in particular in the sector of civil aviation for the purpose of air navigation services.

*Amendment*

(c) a safety-of-life (SoL) service, which shall be free of direct user charges and shall provide positioning and ***time*** synchronisation information with a high level of continuity, availability, accuracy ***and integrity. This service is provided under the oversight of EASA to ensure compliance to aviation safety requirements***, including an integrity message alerting users to any failure in, or out-of-tolerance signals emitted by, Galileo and other GNSSs which it augments in the coverage area, ***it is*** intended mainly for users for whom safety is essential, in particular in the sector of civil aviation for

the purpose of air navigation services.

## Amendment 108

### Proposal for a regulation

#### Article 45 – paragraph 2 – subparagraph 1

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

The services referred to in paragraph 1 shall be provided as a priority on the territory of Member States geographically located in Europe.

##### *Amendment*

The services referred to in paragraph 1 shall be provided as a priority on the territory of Member States geographically located in Europe ***including the Azores, Madeira and the Canary Islands.***

## Amendment 109

### Proposal for a regulation

#### Article 45 – paragraph 2 – subparagraph 2

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

The geographical coverage of EGNOS may be extended to other regions of the world, in particular to the territories of candidate countries, of third countries associated with the Single European Sky and of third countries in the European Neighbourhood Policy, subject to technical feasibility and, for the SoL service, on the basis of international agreements.

##### *Amendment*

The geographical coverage of EGNOS may be extended to other regions of the world, in particular to the territories of candidate countries, of third countries associated with the Single European Sky and of third countries in the European Neighbourhood Policy, subject to technical feasibility, ***assessment of potential security threats to the system and security accreditation*** and, for the SoL service, on the basis of international agreements.

## Amendment 110

### Proposal for a regulation

#### Article 45 – paragraph 3

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

3. The cost of such extension, including the related operating costs specific to these regions, shall not be covered by the budget referred to in Article 11. Such extension shall not delay the

##### *Amendment*

3. The cost of such extension, including the related operating costs specific to these regions, shall not be covered by the budget referred to in Article 11, ***but the European Commission shall***

offering of the services referred to in paragraph 1 throughout the territory of Member States geographically located in Europe.

*consider the exploitation of existing partnership programmes and, if appropriate, the development of specific financial instruments to support it.* Such extension shall not delay the offering of the services referred to in paragraph 1 throughout the territory of Member States geographically located in Europe.

#### **Amendment 111**

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

##### **Article 46 – paragraph 1 – point a**

*Text proposed by the Commission*

(a) manage and reduce the risks inherent in the operation of Galileo and EGNOS;

*Amendment*

(a) manage and reduce the risks inherent in the operation *and delivery of services* of Galileo and EGNOS;

#### **Amendment 112**

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

##### **Article 46 – paragraph 1 – point a a (new)**

*Text proposed by the Commission*

*Amendment*

*(aa) manage and reduce the risk of Radio Frequency Interference events occurrence.*

#### **Amendment 113**

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

##### **Article 47 – title**

*Text proposed by the Commission*

Compatibility *and* interoperability

*Amendment*

Compatibility, interoperability *and standardisation*

#### **Amendment 114**



**Proposal for a regulation**  
**Article 47 – paragraph 2 a (new)**

*Text proposed by the Commission*

*Amendment*

**2a. Galileo and EGNOS shall strive to be compliant with international standards and certifications; in particular the competent authorities shall cooperate to lay down a certification system dedicated to the railway, road, air and shipping transport sector.**

**Amendment 115**

**Proposal for a regulation**  
**Article 47 – paragraph 2 b (new)**

*Text proposed by the Commission*

*Amendment*

**2b. GALILEO and EGNOS and the services which they provide, shall be compatible with certain transport infrastructure receivers, considering also strategic future sectors such as self-driving and connected cars and unmanned aerial vehicles (UAVs).**

**Amendment 116**

**Proposal for a regulation**  
**Article 48 – paragraph 1 a (new)**

*Text proposed by the Commission*

*Amendment*

**1a. Copernicus is the civil Earth Observation Programme's component, driven by core users. It shall ensure an autonomous access to environmental knowledge and key technologies for Earth Observation data and information produced by services, thereby enabling the Union to achieve independent decision-making and actions in the fields of the environment, climate change, civil protection, security and safety, as in the**

*transport sector.*

#### **Amendment 117**

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

##### **Article 50 – paragraph 1 – point a – indent 3**

*Text proposed by the Commission*

– land monitoring and agriculture to provide information on land cover, land use and land use change, urban areas, inland water quantity and quality, forests, agriculture and other natural resources, biodiversity and cryosphere;

*Amendment*

– land monitoring, ***infrastructure building*** and agriculture to provide information on land cover, land use and land use change, urban areas, inland water quantity and quality, forests, agriculture and other natural resources, biodiversity and cryosphere;

#### **Amendment 118**

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

##### **Article 50 – paragraph 1 – point a – indent 4 a (new)**

*Text proposed by the Commission*

*Amendment*

- ***Transport services to make land, maritime, air and space transport smarter, more efficient, safer, more secure, sustainable and integrated.***

#### **Amendment 119**

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

##### **Article 50 – paragraph 1 – point c a (new)**

*Text proposed by the Commission*

*Amendment*

(ca) ***a mechanism to increase the Copernicus services in order to support other actions of the Union.***

#### **Amendment 120**

**Proposal for a regulation**  
**Article 50 – paragraph 1 – point c b (new)**

*Text proposed by the Commission*

*Amendment*

**(cb) Further monitoring, reporting and compliance assurance services, covering other thematic areas regulated by European Union.**

**Amendment 121**

**Proposal for a regulation**  
**Article 50 – paragraph 1 a (new)**

*Text proposed by the Commission*

*Amendment*

**Copernicus shall include actions in support of the Copernicus-related downstream services, promoting:**

**(a) institutional data and information uptake for monitoring, reporting and compliance assurance national services in support of public authorities;**

**(b) services offered on commercial basis;**

**(c) mapping services for the monitoring and protection of cultural heritage.**

**Amendment 122**

**Proposal for a regulation**  
**Article 53 – paragraph 1 – point a**

*Text proposed by the Commission*

*Amendment*

(a) the establishment, development and operation of a network of ground-based and/or space-based sensors of the Member States, including sensors developed through the European Space Agency and nationally operated Union sensors, to survey and track objects and to produce a European catalogue of space objects adapted to the needs of the users referred to

(a) the establishment, development and operation of a network of ground-based and/or space-based sensors of the Member States, including sensors developed through the European Space Agency and nationally operated Union sensors, to survey and track objects and to produce, **by the end of 2023**, a European catalogue of space objects adapted to the needs of the

in Article 55;

users referred to in Article 55;

## **Amendment 123**

### **Proposal for a regulation Article 58 a (new)**

*Text proposed by the Commission*

*Amendment*

#### **Article 58 a**

#### **Monitoring of supply and demand for SST**

***Before 31 December 2024, the Commission shall evaluate the implementation of the SST component, in particular as regards the evolution of the user needs in relation to the ground based and space based sensors capacity. The evaluation shall, in particular, examine the need for additional space and ground infrastructures. The evaluation shall be accompanied, if necessary, by an appropriate proposal for the development of additional space and ground infrastructures under the SST component.***

#### *Justification*

*The European Union should be more ambitious on the two new initiatives SSA and GOVSATCOM. Since we ask an increased budget we can include more activities.*

## **Amendment 124**

### **Proposal for a regulation Article 59 – paragraph 1 – introductory part**

*Text proposed by the Commission*

*Amendment*

1. The space weather function ***may*** support the following activities:

1. The space weather function ***shall*** support the following activities:

#### *Justification*

*The European Union should be more ambitious on the two new initiatives SSA and GOVSATCOM. Since we ask an increased budget we can include more activities.*

**Amendment 125**  
**Proposal for a regulation**  
**Article 60 – paragraph 1 – introductory part**

*Text proposed by the Commission*

1. The NEO function **may** support the following activities:

*Amendment*

1. The NEO function **shall** support the following activities:

**Amendment 126**

**Proposal for a regulation**  
**Article 60 – paragraph 2**

*Text proposed by the Commission*

2. The Commission **may** coordinate the actions of the Union and national public authorities concerned with civil protection in the event a NEO is found to be approaching Earth.

*Amendment*

2. The Commission **shall** coordinate the actions of the Union and national public authorities concerned with civil protection in the event a NEO is found to be approaching Earth.

**Amendment 127**

**Proposal for a regulation**  
**Article 61 – paragraph 1 – point a**

*Text proposed by the Commission*

(a) the development, construction, and operations of the ground segment infrastructure;

*Amendment*

(a) the development, construction, and operations of the ground segment **and space segment** infrastructure;

**Amendment 128**

**Proposal for a regulation**  
**Article 62 – paragraph 2**

*Text proposed by the Commission*

2. The Commission shall adopt, by means of implementing acts, the operational requirements for services provided under GOVSATCOM, in the form of technical specifications for use-cases related to crisis management,

*Amendment*

2. The Commission shall adopt, by means of implementing acts, the operational requirements for services provided under GOVSATCOM, in the form of technical specifications for use-cases related to crisis management,

surveillance and key infrastructure management, including diplomatic communication networks. Those operational requirements shall be based on the detailed analysis of the requirements of users, and taking into account requirements stemming from existing user equipment and networks. Those implementing acts shall be adopted in accordance with the examination procedure referred to in Article 107(3).

surveillance and key infrastructure management, including diplomatic communication networks. Those operational requirements shall be based on the detailed analysis of the requirements of users, and taking into account requirements stemming from existing user equipment and networks. Those implementing acts shall be adopted in accordance with the examination procedure referred to in Article 107(3). ***Other use cases may be added, if appropriate, at any time, based on actual user demand coming from the Member States followed by corresponding technical specifications.***

## Amendment 129

### Proposal for a regulation Article 62 – paragraph 3

*Text proposed by the Commission*

3. The Commission shall adopt, by means of implementing acts, the service portfolio for services provided under GOVSATCOM, in the form of a list of categories of satellite communication capacities and services and their attributes, including geographic coverage, frequency, bandwidth, user equipment, and security features. Those measures shall be based on the operational and security requirements referred to in paragraph 1 ***and shall prioritise services provided to users at Union level.*** Those implementing acts shall be adopted in accordance with the examination procedure referred to in Article 107(3).

## Amendment 130

### Proposal for a regulation Article 62 – paragraph 3 a (new)

*Amendment*

3. The Commission shall adopt, by means of implementing acts, the service portfolio for services provided under GOVSATCOM, in the form of a list of categories of satellite communication capacities and services and their attributes, including geographic coverage, frequency, bandwidth, user equipment, and security features. Those measures shall be based on the operational and security requirements referred to in paragraph 1. Those implementing acts shall be adopted in accordance with the examination procedure referred to in Article 107(3).

*Text proposed by the Commission*

*Amendment*

**3a.** *The service portfolio referred to in paragraph 3 shall take into consideration existing commercially available services in order not to distort competition in the internal market.*

#### **Amendment 131**

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

##### **Article 63 – paragraph 1 – point b**

*Text proposed by the Commission*

*Amendment*

(b) legal persons duly accredited to provide satellite capacities or services in accordance with the security accreditation procedure in Article 36, ***based on the specific security requirements for the GOVSATCOM component referred to in Article 34 (1).***

(b) legal persons duly accredited to provide satellite capacities or services in accordance with the security accreditation procedure in Article 36.

#### **Amendment 132**

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

##### **Article 63 – paragraph 1 – point b a (new)**

*Text proposed by the Commission*

*Amendment*

**(ba)** *The providers of satellite communication capacities or services under this component shall comply with the specific security requirements for the GOVSATCOM component determined in accordance with Article 34 (1).*

#### **Amendment 133**

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

##### **Article 65 – paragraph 1**

*Text proposed by the Commission*

*Amendment*

1. Pooled satellite communication capacities, services and user equipment

1. Pooled satellite communication capacities, services and user equipment

shall be shared and prioritised between GOVSATCOM participants on the basis of an analysis of security risks by the users at Union and Member State level. ***This sharing and prioritisation shall prioritise users at Union level.***

shall be shared and prioritised between GOVSATCOM participants on the basis of an analysis of security risks by the users at Union and Member State level.

#### **Amendment 134**

##### **Proposal for a regulation Article 66 – paragraph 1 a (new)**

*Text proposed by the Commission*

*Amendment*

***1a. GOVSATCOM Hubs shall take into consideration existing commercially available services existing in order not to distort competition in the internal market.***

#### **Amendment 135**

##### **Proposal for a regulation Article 67 – paragraph 4 a (new)**

*Text proposed by the Commission*

*Amendment*

***4a. Commission, by the end of 2021, shall adopt a delegated act, in accordance with Article 105, concerning provisions regarding the GOVSATCOM governance.***

#### **Amendment 136**

##### **Proposal for a regulation Article 69 – paragraph 1**

*Text proposed by the Commission*

*Amendment*

Before the end of 2024, the Commission shall evaluate the implementation of the GOVSATCOM component, notably as regards the evolution of the user needs in relation to the satellite communication capacity. The evaluation shall in particular examine the need for additional space infrastructure. The evaluation shall be

***The GOVSATCOM shall be operational by the end of 2023.*** Before the end of 2024, the Commission shall evaluate the implementation of the GOVSATCOM component, notably as regards the evolution of the user needs in relation to the satellite communication capacity. The evaluation shall in particular examine the



accompanied, if necessary, by an appropriate proposal for the development of additional space infrastructure under the GOVSATCOM component.

need for additional space infrastructure. The evaluation shall be accompanied, if necessary, by an appropriate proposal for the development of additional space infrastructure under the GOVSATCOM component.

## **Amendment 137**

### **Proposal for a regulation Article 73 – paragraph 4**

#### *Text proposed by the Commission*

4. The members and alternate members of the Administrative Board shall be appointed in light of their knowledge in the field of the Agency's **core** tasks, taking into account relevant managerial, administrative and budgetary skills. The European Parliament, the Commission and the Member States shall endeavour to limit changes of their representatives on the Administrative Board, in order to ensure continuity of the Board's activities. All parties shall aim to achieve a balanced representation between men and women on the Administrative Board.

#### *Amendment*

4. The members and alternate members of the Administrative Board shall be appointed in light of their knowledge in the field of the Agency's tasks, taking into account relevant managerial, administrative and budgetary skills. The European Parliament, the Commission and the Member States shall endeavour to limit changes of their representatives on the Administrative Board, in order to ensure continuity of the Board's activities. All parties shall aim to achieve a balanced representation between men and women on the Administrative Board.

## **Amendment 138**

### **Proposal for a regulation Article 101 – paragraph 1 a (new)**

#### *Text proposed by the Commission*

#### *Amendment*

***1a. The Commission shall define a methodology to provide for qualitative indicators for an accurate assessment of the progress towards achieving the general objectives set out in Article 4 (a), (b) and (c). On the basis of this methodology the Commission shall complement the Annex, at the latest by January 1 2021.***

## Amendment 139

### Proposal for a regulation Article 101 – paragraph 3

*Text proposed by the Commission*

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

*Amendment*

3. The performance reporting system shall ensure that data for monitoring programme implementation and results ***are suitable for an in-depth analysis of the progress achieved and the difficulties encountered and*** are collected efficiently, effectively, and in a timely manner. To that end, proportionate reporting requirements shall be imposed on recipients of Union funds and, where relevant, Member States.

## Amendment 140

### Proposal for a regulation Article 102 – paragraph 1

*Text proposed by the Commission*

1. The Commission shall carry out evaluations of the Programme in a timely manner to feed into the decision-making process.

*Amendment*

1. The Commission shall carry out evaluations of the Programme in a timely manner to feed into the decision-making process. ***The evaluations shall also provide for a qualitative assessment of the progress towards achieving the general objectives set out in Article 4.***

## Amendment 141

### Proposal for a regulation Article 102 – paragraph 2

*Text proposed by the Commission*

2. The interim evaluation of the Programme shall be performed once there is sufficient information available about the implementation of the programme, but no later than ***four*** years after the start of the programme implementation.

*Amendment*

2. The interim evaluation of the Programme shall be performed once there is sufficient information available about the implementation of the programme, but no later than ***three*** years after the start of the programme implementation.

**Amendment 142**  
**Proposal for a regulation**  
**Article 102 – paragraph 6 – subparagraph 1**

*Text proposed by the Commission*

By 30 June 2024, and every five years thereafter, the Commission shall assess the Agency's performance, in relation to its objectives, mandate, tasks and **location**, in accordance with Commission guidelines. The evaluation shall, in particular, address the possible need to modify the mandate of the Agency, and the financial implications of any such modification. It shall also address the Agency's policy on conflicts of interest and the independence and autonomy of the Security Accreditation Board.

*Amendment*

By 30 June 2024, and every five **three** years thereafter, the Commission shall assess the Agency's performance, in relation to its objectives, mandate, tasks and **locations**, in accordance with Commission guidelines. The evaluation shall, in particular, address the possible need to modify the mandate of the Agency, **in particular regarding the possibility to entrust it with additional tasks, in accordance with Article 30**, and the financial implications of any such modification. It shall also address the Agency's policy on conflicts of interest and the independence and autonomy of the Security Accreditation Board.

**Amendment 143**

**Proposal for a regulation**  
**Article 110 – paragraph 3 a (new)**

*Text proposed by the Commission*

*Amendment*

**3a. The Commission in cooperation with the Agency elaborates transitional plan to ensure the appropriate funding and staffing of the Agency in order to be able the Agency to perform tasks referred to in this Regulation. The Commission shall define measures to ensure that the tasks to which the Agency does not have appropriate funding and staffing at the moment are sufficiently performed during the transitional period which shall be no longer than 2 years after the Regulation is applied.**

## PROCEDURE – COMMITTEE ASKED FOR OPINION

<b>Title</b>	Establishing the space programme of the Union and the European Union Agency for the Space Programme						
<b>References</b>	COM(2018)0447 – C8-0258/2018 – 2018/0236(COD)						
<b>Committee responsible</b> Date announced in plenary	ITRE 14.6.2018						
<b>Opinion by</b> Date announced in plenary	TRAN 5.7.2018						
<b>Rapporteur</b> Date appointed	Massimiliano Salini 3.7.2018						
<b>Discussed in committee</b>	8.10.2018						
<b>Date adopted</b>	9.10.2018						
<b>Result of final vote</b>	<table> <tr> <td>+: </td><td>35</td></tr> <tr> <td>–: </td><td>3</td></tr> <tr> <td>0: </td><td>1</td></tr> </table>	+:	35	–:	3	0:	1
+:	35						
–:	3						
0:	1						
<b>Members present for the final vote</b>	Daniela Aiuto, Inés Ayala Sender, Georges Bach, Izaskun Bilbao Barandica, Deirdre Clune, Michael Cramer, Luis de Grandes Pascual, Andor Deli, Isabella De Monte, Ismail Ertug, Jacqueline Foster, Tania González Peñas, Dieter-Lebrecht Koch, Merja Kyllönen, Innocenzo Leontini, Peter Lundgren, Marian-Jean Marinescu, Georg Mayer, Gesine Meissner, Markus Pieper, Gabriele Preuß, Dominique Riquet, Massimiliano Salini, Claudia Schmidt, Jill Seymour, Claudia Țapardel, Keith Taylor, Pavel Telička, Wim van de Camp, Marie-Pierre Vieu, Kosma Zlotowski						
<b>Substitutes present for the final vote</b>	Stefan Gehrold, Maria Grapini, Karoline Graswander-Hainz, Ryszard Antoni Legutko, Patricija Šulin, Henna Virkkunen						
<b>Substitutes under Rule 200(2) present for the final vote</b>	Nicola Danti, Angel Dzhambazki						

## FINAL VOTE BY ROLL CALL IN COMMITTEE ASKED FOR OPINION

35	+
ALDE	Izaskun Bilbao Barandica, Gesine Meissner, Dominique Riquet, Pavel Telička
ECR	Angel Dzhambazki, Jacqueline Foster, Ryszard Antoni Legutko, Kosma Złotowski
EFDD	Daniela Aiuto
GUE/NGL	Tania González Peñas, Merja Kyllönen
PPE	Georges Bach, Wim van de Camp, Deirdre Clune, Andor Deli, Stefan Gehrold, Luis de Grandes Pascual, Dieter-Lebrecht Koch, Innocenzo Leontini, Marian-Jean Marinescu, Markus Pieper, Massimiliano Salini, Claudia Schmidt, Patricija Šulin, Henna Virkkunen
S&D	Inés Ayala Sender, Nicola Danti, Isabella De Monte, Ismail Ertug, Maria Grapini, Karoline Graswander-Hainz, Gabriele Preuß, Claudia Țapardel
VERTS/ALE	Michael Cramer, Keith Taylor

3	-
EFDD	Jill Seymour
ENF	Georg Mayer
GUE/NGL	Marie-Pierre Vieu

1	0
ECR	Peter Lundgren

Key to symbols:

+ : in favour

- : against

0 : abstention

9.10.2018

## **OPINION OF THE COMMITTEE ON AGRICULTURE AND RURAL DEVELOPMENT**

for the Committee on Industry, Research and Energy

on the proposal for a regulation of the European Parliament and of the Council establishing the space programme of the Union and the European Union Agency for the Space Programme and repealing Regulations (EU) No 912/2010, (EU) No 1285/2013, (EU) No 377/2014 and Decision 541/2014/EU  
(COM(2018)0447 – C8-0258/2018 – 2018/0236(COD))

Rapporteur for opinion: Hilde Vautmans

### **SHORT JUSTIFICATION**

Agriculture is becoming an increasingly complex activity worldwide. On one hand, the United Nations predict that food production will need to increase by 50% to cope with a world population by 2050. On the other, the sector will have to deal with the impact of climate change and the environmental and biodiversity challenges associated to it such as soil and water quality. EU farmers must also deal with the high production standards and increasing number of requirements, society demands and administrative procedures.

The sector has therefore numerous challenges ahead in order to fully achieve a more productive and resource-efficient farming model that optimises its products irrespective of the farm size. In the recent decades European agriculture has done well at developing new practices, techniques and production methods that have increased outputs, improved the adaptability of farming practices to new and changing circumstances and cut production costs;

However, this progress would not have been possible without the inestimable help of space technology. Agriculture is one of the key sectors to which space based technology applications bring added value. Precision agriculture, the use of technology to make more precise, measured and suitable farming decisions, Satellite navigation systems and Earth observation systems are currently part of many EU farms and will soon be part of the whole EU agricultural sector. Today around 10% of the EU's GDP - more than € 1.100 billion - are enabled by satellite navigation signals. The European space industry employs over 230 000 professionals and its turnover was estimated between € 46 and 54 billion in 2014.

This proposal of Regulation is part of the follow-up to the Space Strategy for Europe. A fully

integrated space programme will bring together all of the Union's activities in this field. It will provide a coherent framework for future investment, offering increased visibility and more flexibility. By improving efficiency, it will ultimately help roll out new space-driven services that will benefit all EU citizens. The proposal provides the Union with a space budget of 16 billion to carry out, continue and improve Galileo, EGNOS, Copernicus and SST, as well as launching the Gvsatcom initiative.

The rapporteur welcomes the Commission's proposal for a regulation as it significantly simplifies and streamlines the existing Union acquis by combining it in a single text and harmonising almost all rules that were hitherto contained in separate Regulations or Decisions. This raises the profile of the Union space policy, which is in line with the major role that the Union intends to play in the future as a global player in space.

In line with the objective of better implementing the Common Agricultural Policy (CAP), there is an increased requirement to use Earth observation information, offering wider possibilities in terms of policy monitoring and smart farming. Copernicus paves the way for the monitoring of agricultural activities serving the CAP objectives by providing free and open Earth observation data. These data combined with the capacity of the Land Parcel Identification System and complemented by other satellite imagery provided by private industry offer real added value.

That is why the rapporteur finds that more budget has to be allocated to Copernicus, in order to achieve a balance with Galileo and fulfills the new demands of the EU-policies and stakeholders. The rapporteur proposes to allocate additional € 2 billion for Copernicus. This figure is in line with estimates of the Copernicus Long Term Scenario for implementing all the priorities requested by the stakeholders and identified by the European Commission.

Those needs are:

1. a multi-satellite mission to measure human impact on the CO<sub>2</sub> cycle. The need is supported by the conclusions of COP21.
2. observations at high spatio-temporal resolution in order to complement and expand the current Sentinel-2 measurements. This was a priority brought forward by agricultural stakeholders and for urban applications.
3. new measurements on critical parameters for the polar regions. This will support the EU-Arctic policies and climate change.
4. optical observations with hyper-spectral imaging capabilities to expand the current Sentinel-2 mission. These are priorities signaled by agricultural stakeholders and important for land resources.

There are growing EU and global opportunities for the data of Copernicus in the agricultural sector: like food and water crises, water use, biodiversity loss, ecosystem collapse, extreme weather events, precision farming, monitoring of the CAP, and food security in the wider sense.

The extra money demanded for the 4 missions mentioned will ensure that the private sector can design more applications for the producers and other stakeholders to use on a daily basis

in a practical format on their handheld devices. One example from Belgium: VITO has developed a system to monitor the growth of potatoes. By using Copernicus data and information, this service can now be scaled up and implemented at a global scale. Applications such as these can fill the critical information gap on crop forecasts that currently exists.

## AMENDMENTS

The Committee on Agriculture and Rural Development calls on the Committee on Industry, Research and Energy, as the committee responsible, to take into account the following amendments:

### Amendment 1

#### Proposal for a regulation

##### Recital 3

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

(3) The Union has been developing its own space initiatives and programmes since the end of the 1990s, namely the European Geostationary Navigation Overlay Service (EGNOS) and then Galileo and Copernicus, which respond to the needs of Union citizens and the requirements of public policies. Not only should the continuity of those initiatives be ensured but they must also be improved, so that they remain at the forefront in view of new technology development and the transformations in the digital and information and communications technology domains, meet the new needs of users and are able to meet political priorities such as climate change, including monitoring changes in the *Arctic*, security and defence.

###### *Amendment*

(3) The Union has been developing its own space initiatives and programmes since the end of the 1990s, namely the European Geostationary Navigation Overlay Service (EGNOS) and then Galileo and Copernicus, which respond to the needs of Union citizens and the requirements of public policies. Not only should the continuity of those initiatives be ensured but they must also be ***more rapidly improved, by increasing the number of satellites for example***, so that they remain at the forefront in view of new technology development and the transformations in the digital and information and communications technology domains, meet the new needs of users and are able to meet political priorities such as climate change, including monitoring changes in the ***Arctic***, security and defence.

### Amendment 2

#### Proposal for a regulation

##### Recital 38



*Text proposed by the Commission*

(38) A growing number of key economic sectors, in particular transport, telecommunications, agriculture and energy, increasingly use satellite navigation systems, not to mention the synergies with activities linked to the security and defence of the Union and its Member States. Having full control of satellite navigation should therefore guarantee the Union's technological independence, including in the longer term for the components of infrastructure equipment, and ensure its strategic autonomy.

*Amendment*

(38) A growing number of key economic sectors, in particular transport, telecommunications, agriculture, **food safety** and energy, increasingly use satellite navigation systems, not to mention the synergies with activities linked to the security and defence of the Union and its Member States. Having full control of satellite navigation should therefore guarantee the Union's technological independence, including in the longer term for the components of infrastructure equipment, and ensure its strategic autonomy.

**Amendment 3**

**Proposal for a regulation**  
**Recital 40 a (new)**

*Text proposed by the Commission*

*Amendment*

***(40a) EGNOS can assist precision agriculture and help European farmers eliminate waste, decrease over-application of fertilisers and herbicides, and optimise crop yields. EGNOS already has an important “user community”, but the number of farming machinery compatible with navigation technology is more limited. This issue should be tackled.***

**Amendment 4**

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

*Text proposed by the Commission*

*Amendment*

(47) Copernicus should ensure an autonomous access to environmental knowledge and key technologies for Earth observation and geo-information services, thereby enabling the Union to achieve independent decision-making and actions in the fields of the environment, climate

(47) Copernicus should ensure an autonomous access to environmental **and agricultural** knowledge and key technologies for Earth observation and geo-information services, thereby enabling the Union to achieve independent decision-making and actions in the fields of the

change, civil protection, security, as well as the digital economy, among others.

environment, **agriculture, biodiversity, land use**, climate change, civil protection, security, as well as the digital economy, among others.

## Amendment 5

### Proposal for a regulation Recital 47 a (new)

*Text proposed by the Commission*

*Amendment*

***(47 a) In the case of agriculture, Copernicus should be further developed and exploited in order to foster the development of practices that preserve the environment and sustain productivity. Agriculture shall benefit from the full potential of Copernicus, particularly with regard to agricultural land use and trends, yield forecasts, irrigation management and hydrology, seasonal mapping of cultivated areas land cover and crop type maps, land take, crop and soil conditions, high nature value farmland, rural land biodiversity monitoring, and landscape fragmentation. Following the outcome of ESA's Sen2Agri and Sen4CAP projects the data could also be used to shift the CAP monitoring approach, from being sample-based towards a systematic approach and eventually replace the on the spot checks thus reducing the administrative burden for Paying agencies and final beneficiaries of the CAP support.***

## Amendment 6

### Proposal for a regulation Recital 48

*Text proposed by the Commission*

*Amendment*

(48) Copernicus should build on and ensure continuity with the activities and achievements under Regulation (EU) No

***(48) The Copernicus Programme is based on a partnership between the Union, the European Space Agency and***

377/2014 of the European Parliament and of the Council<sup>17</sup> establishing the Union Earth observation and monitoring programme (Copernicus) as well as Regulation (EU) No 911/2010 of the European Parliament and of the Council on the European Earth monitoring programme (GMES) and its initial operations<sup>18</sup> establishing the predecessor Global Monitoring for Environment and Security (GMES) programme and the rules for implementation of its initial operations, taking into account recent trends in research, technological advances and innovations impacting the Earth observation domain, as well as developments in big data analytics and Artificial Intelligence and related strategies and initiatives at Union level<sup>19</sup>. To the greatest extent possible, it should make use of capacities for space-borne observations of the Member States, the European Space Agency, EUMETSAT<sup>20</sup>, as well as other entities, including commercial initiatives in Europe, thereby also contributing to the development of a viable commercial space sector in Europe. Where feasible and appropriate, it should also make use of the available in situ and ancillary data provided mainly by the Member States in accordance with Directive 2007/2/EC<sup>21</sup>. The Commission should work together with the Member States and the European Environment Agency to ensure an efficient access and use of the in-situ data sets for Copernicus.

***the Member States. Hence, it should build on existing European and national capacities and should complement them by new assets developed in common. In order to implement this approach, the Commission should endeavour to maintain a dialogue with ESA and Member States owning relevant space and insitu assets.*** Copernicus should build on and ensure continuity with the activities and achievements under Regulation (EU) No 377/2014 of the European Parliament and of the Council<sup>17</sup> establishing the Union Earth observation and monitoring programme (Copernicus) as well as Regulation (EU) No 911/2010 of the European Parliament and of the Council on the European Earth monitoring programme (GMES) and its initial operations<sup>18</sup> establishing the predecessor Global Monitoring for Environment and Security (GMES) programme and the rules for implementation of its initial operations, taking into account recent trends in research, technological advances and innovations impacting the Earth observation domain, as well as developments in big data analytics and Artificial Intelligence and related strategies and initiatives at Union level<sup>19</sup>. To the greatest extent possible, it should make use of capacities for space-borne observations of the Member States, the European Space Agency, EUMETSAT<sup>20</sup>, as well as other entities, including commercial initiatives in Europe, thereby also contributing to the development of a viable commercial space sector in Europe. Where feasible and appropriate, it should also make use of the available in situ and ancillary data provided mainly by the Member States in accordance with Directive 2007/2/EC<sup>21</sup>. The Commission should work together with the Member States and the European Environment Agency to ensure an efficient access and use of the in-situ data sets for Copernicus.

<sup>17</sup> Regulation (EU) No 377/2014 of the European Parliament and of the Council of 3 April 2014 establishing the Copernicus Programme and repealing Regulation (EU) No 911/2010 (OJ L 122, 24.4.2014, p. 44).

<sup>18</sup> Regulation (EU) No 911/2010 of the European Parliament and of the Council of 22 September 2010 on the European Earth monitoring programme (GMES) and its initial operations (2011 to 2013)(OJ L 276, 20.10.2010, p. 1).

<sup>19</sup> Communication "Artificial Intelligence for Europe" (COM(2018) 237 final) , Communication "Towards a common European data space" (COM(2018) 232 final), Proposal for a Council Regulation on establishing the European High Performance Computing Joint Undertaking (COM(2018) 8 final).

<sup>20</sup> The European Organisation for the Exploitation of Meteorological Satellites

<sup>21</sup> Directive 2007/2/EC of the European Parliament and of the Council of 14 March 2007 establishing an Infrastructure for Spatial Information in the European Community (INSPIRE)

<sup>17</sup> Regulation (EU) No 377/2014 of the European Parliament and of the Council of 3 April 2014 establishing the Copernicus Programme and repealing Regulation (EU) No 911/2010 (OJ L 122, 24.4.2014, p. 44).

<sup>18</sup> Regulation (EU) No 911/2010 of the European Parliament and of the Council of 22 September 2010 on the European Earth monitoring programme (GMES) and its initial operations (2011 to 2013)(OJ L 276, 20.10.2010, p. 1).

<sup>19</sup> Communication "Artificial Intelligence for Europe" (COM(2018) 237 final) , Communication "Towards a common European data space" (COM(2018) 232 final), Proposal for a Council Regulation on establishing the European High Performance Computing Joint Undertaking (COM(2018) 8 final).

<sup>20</sup> The European Organisation for the Exploitation of Meteorological Satellites

<sup>21</sup> Directive 2007/2/EC of the European Parliament and of the Council of 14 March 2007 establishing an Infrastructure for Spatial Information in the European Community (INSPIRE)

### *Justification*

*This reference acknowledges on-going feasibility studies, funded by European Space Agency and future development of the first unit of each satellite type, to be funded by ESA.*

## **Amendment 7**

### **Proposal for a regulation**

#### **Recital 48 a (new)**

*Text proposed by the Commission*

*Amendment*

***(48a) Copernicus needs to be rapidly enhanced, by increasing the number of satellites for example. Since overcast conditions can detract from the usability of images, higher image frequency is necessary to obtain time series analyses used for purposes such as agriculture.***

## Amendment 8

### Proposal for a regulation

#### Recital 52

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

(52) With regard to data acquisition, the activities under Copernicus should aim at completing and maintaining the existing space infrastructure, preparing the long-term replacement of the satellites at the end of their lifetime, as well as initiating new missions addressing new observation systems to support meeting the challenge of global climate change (e.g. anthropogenic CO<sub>2</sub> and other greenhouse gas emissions monitoring). Activities under Copernicus should expand their global monitoring coverage over the polar regions and support environmental compliance assurance, statutory environmental monitoring and reporting and innovative environmental applications (e.g. for crops monitoring, water management and enhanced fire monitoring). In doing so, Copernicus should leverage and take maximum advantage of the investments made under the previous funding period (2014-2020), while exploring new operational and business models to further complement the Copernicus capacities. Copernicus should also build on successful partnerships with Member States to further develop its security dimension under appropriate governance mechanisms, in order to respond to evolving user needs in the security domain.

##### *Amendment*

(52) With regard to data acquisition, the activities under Copernicus should aim at completing and maintaining the existing space infrastructure, preparing the long-term replacement of the satellites at the end of their lifetime, as well as initiating new missions, ***whose feasibility is currently being studied by the European Space Agency***, addressing new observation systems to support meeting the challenge of global climate change (e.g. anthropogenic CO<sub>2</sub> and other greenhouse gas emissions monitoring) ***and agricultural monitoring***. Activities under Copernicus should expand their global monitoring coverage over the polar regions and support environmental compliance assurance, statutory environmental monitoring and reporting and innovative environmental applications (e.g. for crops monitoring, water management and enhanced fire monitoring). In doing so, Copernicus should leverage and take maximum advantage of the investments made under the previous funding period (2014-2020), while exploring new operational and business models to further complement the Copernicus capacities. Copernicus should also build on successful partnerships with Member States to further develop its security dimension under appropriate governance mechanisms, in order to respond to evolving user needs in the security domain.

##### *Justification*

*This reference acknowledges on-going feasibility studies, funded by European Space Agency, and future development of the first unit of each satellite type, to be funded by ESA.*

## Amendment 9

### Proposal for a regulation Recital 53

#### *Text proposed by the Commission*

(53) As part of the data and information processing function, Copernicus should ensure the long-term sustainability and further development of the core Copernicus services, providing information in order to satisfy public sector needs and those arising from the Union's international commitments, and to maximise opportunities for commercial exploitation. In particular, Copernicus should deliver, at the local, national, European and global scale, information on the state of the atmosphere; information on the state of the oceans; information in support of land monitoring supporting the implementation of local, national and Union policies; information in support of climate change adaptation and mitigation; geospatial information in support of emergency management, including through prevention activities, environmental compliance assurance, as well as civil security including support for the Union's external action. The Commission should identify appropriate contractual arrangements fostering the sustainability of service provision.

#### *Amendment*

(53) As part of the data and information processing function, Copernicus should ensure the long-term sustainability and further development of the core Copernicus services, providing information in order to satisfy public sector needs and those arising from the Union's international commitments, and to maximise opportunities for commercial exploitation. In particular, Copernicus should deliver, at the local, national, European and global scale, information on the state of the atmosphere; information on the state of the oceans; information in support of land monitoring supporting the implementation of local, national and Union policies; information in support of climate change adaptation and mitigation; ***information on the state of agricultural lands and land use, information on fishing activities,*** geospatial information in support of emergency management, including through prevention activities, environmental compliance assurance, as well as civil security including support for the Union's external action. The Commission should identify appropriate contractual arrangements fostering the sustainability of service provision.

## Amendment 10

### Proposal for a regulation Recital 59 a (new)

#### *Text proposed by the Commission*

#### *Amendment*

***(59a) Given the major potential of satellite imagery for sustainable and efficient resource management, providing reliable and timely information on crop***

*and soil conditions for example, this service should be further enhanced to meet end-user needs and ensure data linkage.*

## Amendment 11

### Proposal for a regulation Recital 86

#### *Text proposed by the Commission*

(86) Infrastructure dedicated to the Programme may require additional research and innovation, which may be supported under Horizon Europe, aiming for coherence with activities in this domain by the European Space Agency. Synergies with Horizon Europe should ensure that research and innovation needs of the space sector are identified and established as part of the strategic research and innovation planning process. Space data and services made freely available by the Programme will be used to develop breakthrough solutions through research and innovation, including in Horizon Europe, in particular for sustainable food and natural resources, climate monitoring, smart cities, automated vehicles, security and disaster management. The strategic planning process under Horizon Europe will identify research and innovation activities that should make use of Union-owned infrastructures such as Galileo, EGNOS and Copernicus. Research infrastructures, in particular in situ observing networks will constitute essential elements of the in situ observation infrastructure enabling the Copernicus services

#### *Amendment*

(86) Infrastructure dedicated to the Programme may require additional research and innovation, which may be supported under Horizon Europe, aiming for coherence with activities in this domain by the European Space Agency. Synergies with Horizon Europe should ensure that research and innovation needs of the space sector are identified and established as part of the strategic research and innovation planning process. Space data and services made freely available by the Programme will be used to develop breakthrough solutions through research and innovation, including in Horizon Europe, in particular for sustainable food and natural resources, climate monitoring, ***facilitating natural disaster prevention***, smart cities, automated vehicles, security and disaster management. The strategic planning process under Horizon Europe will identify research and innovation activities that should make use of Union-owned infrastructures such as Galileo, EGNOS and Copernicus. Research infrastructures, in particular in situ observing networks will constitute essential elements of the in situ observation infrastructure enabling the Copernicus services

## Amendment 12

### Proposal for a regulation Article 2 – paragraph 1 – point 23 – subparagraph 1

*Text proposed by the Commission*

*Amendment*

'Copernicus core users' which benefit from Copernicus data and Copernicus information and have the additional role of driving the evolution of Copernicus, comprising the Union institutions and bodies and European national, or regional public bodies entrusted with a public service mission for the definition, implementation, enforcement or monitoring of environmental, civil protection, safety or security policies;

'Copernicus core users' which benefit from Copernicus data and Copernicus information and have the additional role of driving the evolution of Copernicus, comprising the Union institutions and bodies and European national, or regional public bodies entrusted with a public service mission for the definition, implementation, enforcement or monitoring of environmental, **agricultural, sustainable growth, forestry**, civil protection, safety or security policies;

**Amendment 13**

**Proposal for a regulation**

**Article 2 – paragraph 1 – point 23 – subparagraph 2**

*Text proposed by the Commission*

*Amendment*

‘other Copernicus users’ which benefit from Copernicus data and Copernicus information and include in particular research and education organisations, commercial and private bodies, charities, non-governmental organisations, and international organisations.

‘other Copernicus users’ which benefit from Copernicus data and Copernicus information and include in particular research and education organisations, commercial and private bodies, **legal entities**, charities, non-governmental organisations, and international organisations.

**Amendment 14**

**Proposal for a regulation**

**Article 3 – paragraph 1 – point b**

*Text proposed by the Commission*

*Amendment*

(b) a regional satellite navigation system which consists of centres and stations on the ground and several transponders installed on geosynchronous satellites and which augments and corrects the open signals emitted by Galileo and other GNSSs, inter alia for air-traffic management and air navigation services ('European Geostationary Navigation

(b) a regional satellite navigation system which consists of centres and stations on the ground and several transponders installed on geosynchronous satellites and which augments and corrects the open signals emitted by Galileo and other GNSSs, inter alia for air-traffic management and air navigation services, **as well as agriculture** ('European



Overlay Service or ‘EGNOS’);

Geostationary Navigation Overlay Service  
or ‘EGNOS’);

## Amendment 15

### Proposal for a regulation

#### Article 3 – paragraph 1 – point c

*Text proposed by the Commission*

(c) an autonomous, user-driven, Earth observation system under civil control, offering geo-information data and services, comprising satellites, ground infrastructure, data and information processing facilities, and distribution infrastructure, and fully integrating the needs and requirements *of* security (‘Copernicus’);

*Amendment*

(c) an autonomous, user-driven, Earth observation system under civil control, offering ***updated and reliable*** geo-information data and services, comprising satellites, ground infrastructure, data and information processing facilities, and distribution infrastructure, and fully integrating the needs and requirements ***regarding the security of Union citizens*** (‘Copernicus’);

## Amendment 16

### Proposal for a regulation

#### Article 4 – paragraph 1 – point a

*Text proposed by the Commission*

(a) provide, or contribute to the provision of, high-quality and up-to-date and, where appropriate, secure space-related data, information and services without interruption and wherever possible at global level, meeting existing and future needs and able to meet the Union's political priorities, including as regards climate change and security and defence;

*Amendment*

(a) provide, or contribute to the provision of, high-quality and up-to-date and, where appropriate, secure space-related data, information and services without interruption and wherever possible at global level, meeting existing and future needs and able to meet the Union's political priorities, including as regards climate change, ***food security and safety*** and security and defence;

## Amendment 17

### Proposal for a regulation

#### Article 4 – paragraph 1 – point d

*Text proposed by the Commission*

*Amendment*

(d) promote the role of the Union in the international arena as a leading actor in the space sector and strengthening its role in tackling global challenges and supporting global initiatives, including with regards to climate change and sustainable development.

(d) promote the role of the Union in the international arena as a leading actor in the space sector and strengthening its role in tackling global challenges and supporting global initiatives, including with regards to climate change, ***precision farming, food security*** and sustainable development.

## Amendment 18

### Proposal for a regulation

#### Article 4 – paragraph 2 – point a

*Text proposed by the Commission*

(a) for Galileo and EGNOS: to provide ***of*** state-of-the-art and, where appropriate, secure positioning, navigation and timing services;

*Amendment*

(a) for Galileo and EGNOS: to provide ***on a long-term basis*** state-of-the-art and, where appropriate, secure positioning, navigation and timing services;

*Justification*

*Like Copernicus, Galileo should be provided on a long-term basis.*

## Amendment 19

### Proposal for a regulation

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

*Text proposed by the Commission*

(b) for Copernicus: to deliver accurate and reliable Earth Observation data and information, supplied on a long-term basis, to support the implementation and monitoring of the Union and its Member States' policies in the fields of the environment, climate change, agriculture and rural development, civil protection, safety and security, as well as the digital economy;

*Amendment*

(b) for Copernicus: to deliver accurate and reliable Earth Observation data and information, supplied on a long-term basis, to support the implementation and monitoring of the Union and its Member States' policies in the fields of the environment, ***water and forest management***, climate change, agriculture and rural development, ***fisheries***, civil protection, safety and security, as well as the digital economy;

## **Amendment 20**

### **Proposal for a regulation**

#### **Article 11 – paragraph 1 – subparagraph 1**

*Text proposed by the Commission*

The financial envelope for the implementation of the Programme for the period 2021 – 2027 shall be EUR [16] billion in current prices.

*Amendment*

The financial envelope for the implementation of the Programme for the period 2021 – 2027 shall be EUR [18] billion in current prices.

*Justification*

*This figure is in line with estimates of the Copernicus Long Term Scenario for implementing all the priorities set by the Commission*

## **Amendment 21**

### **Proposal for a regulation**

#### **Article 11 – paragraph 1 – subparagraph 2 – point b**

*Text proposed by the Commission*

(b) for Copernicus: EUR [5,8] billion;

*Amendment*

(b) for Copernicus: EUR [7,8] billion;

*Justification*

*This figure is in line with estimates of the Copernicus Long Term Scenario for implementing all the priorities set by the Commission*

## **Amendment 22**

### **Proposal for a regulation**

#### **Article 11 – paragraph 6**

*Text proposed by the Commission*

**6. Resources allocated to Member States under shared management may, at their request, be transferred to the Programme. The Commission shall implement those resources directly in accordance with point (a) of Article 62(1) of the Financial Regulation or indirectly in accordance with point (c) of that Article. Where possible those resources shall be used for the benefit of the**

*Amendment*

**deleted**

*Member State concerned.*

## Amendment 23

### Proposal for a regulation

#### Article 44 – paragraph 1 – point b

*Text proposed by the Commission*

(b) a high-accuracy service (HAS), which shall be free of charge for users and shall provide, through additional data disseminated in a supplementary frequency band, high-accuracy positioning and synchronisation information intended mainly for satellite navigation applications for professional or commercial use;

*Amendment*

(b) a high-accuracy service (HAS), which shall be free of charge for users and shall provide, through additional data disseminated in a supplementary frequency band, high-accuracy ***horizontal and vertical*** positioning and synchronisation information intended mainly for satellite navigation applications for professional or commercial use;

## Amendment 24

### Proposal for a regulation

#### Article 48 – paragraph 3 – point b

*Text proposed by the Commission*

(b) data and information processing component, which shall include activities for the generation of value-added information to support environmental monitoring, reporting and compliance assurance, civil protection and security services (Copernicus Services);

*Amendment*

(b) data and information processing component, which shall include activities for the generation of ***standardised*** value-added information to support ***water, environmental, agricultural, rural development and forestry*** monitoring, reporting and compliance assurance, civil protection and security services (Copernicus Services);

## Amendment 25

### Proposal for a regulation

#### Article 49 – paragraph 1 – point a

*Text proposed by the Commission*

(a) actions to provide continuity of existing Sentinel missions and to develop, launch, maintain and operate further

*Amendment*

(a) actions to provide continuity of existing Sentinel missions and to develop, launch, maintain and operate further

Sentinels expanding the observation scope, giving priority to: observation capacities for monitoring anthropogenic CO<sub>2</sub> and other greenhouse gas emissions, allowing for polar coverage and enabling innovative environmental applications in *agriculture*, forest and water management domains;

Sentinels expanding the observation scope, giving priority to: observation capacities for monitoring anthropogenic CO<sub>2</sub> and other greenhouse gas emissions, allowing for polar coverage and enabling innovative environmental applications in *arable and livestock farming, fisheries*, forest and water management domains;

## Amendment 26

### Proposal for a regulation

#### Article 50 – paragraph 1 – point a – introductory part

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

(a) environmental monitoring, reporting and compliance assurance services covering:

##### *Amendment*

(a) environmental, *agricultural and rural development* monitoring, reporting and compliance assurance services covering:

## Amendment 27

### Proposal for a regulation

#### Article 50 – paragraph 1 – point a – indent 3

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

– land monitoring and agriculture to provide information on land cover, land use and land use change, urban areas, inland water quantity and quality, forests, agriculture and other natural resources, biodiversity and cryosphere;

##### *Amendment*

– land monitoring and agriculture to provide information on land cover, land use and land use change, urban areas, inland water quantity and quality, forests *and in particular deforestation*, agriculture and other natural resources, biodiversity, cryosphere, *regular assessments of crop areas, crop development monitoring at regional and global scales, harvest estimation, and forecasts of best-adapted harvest windows, yield forecast, irrigation needs estimation, fertilizer or pesticide use optimization, monitoring evapotranspiration and crop(water)stress, mapping and monitoring of soil composition and raw materials, desertification, crop rotation and diversification, soil erosion, contamination and impermeability, the management of chemical substances and*

*waste;*

## **Amendment 28**

### **Proposal for a regulation**

#### **Article 50 – paragraph 1 – point a – indent 3 a (new)**

*Text proposed by the Commission*

*Amendment*

- *Member States will be able to use the information and data resulting from monitoring of the agricultural area regarding the degree of land cover and farmland utilisation, so as to further reduce the administrative burden of granting farm subsidies;*

## **Amendment 29**

### **Proposal for a regulation**

#### **Article 50 – paragraph 1 – point a – indent 4**

*Text proposed by the Commission*

*Amendment*

- climate monitoring change to provide information on anthropogenic CO<sub>2</sub> and other greenhouse gas emissions, essential climate variables, climate reanalyses, seasonal forecasts, climate projections and attribution, as well as indicators at relevant temporal and spatial scales;

- climate monitoring change to provide information on anthropogenic CO<sub>2</sub> and other greenhouse gas emissions, essential climate variables, climate reanalyses, seasonal forecasts, climate projections and attribution, as well as *soil erosion or other* indicators at relevant temporal and spatial scales;

## **Amendment 30**

### **Proposal for a regulation**

#### **Article 50 – paragraph 1 – point a – indent 4 a (new)**

*Text proposed by the Commission*

*Amendment*

- *mapping farmland in need of irrigation, crop forecasts and land use, and ensuring better food safety and quality by safeguarding the environment;*

## Amendment 31

### Proposal for a regulation

#### Article 50 – paragraph 1 – point a – indent 4 b (new)

*Text proposed by the Commission*

*Amendment*

- *monitoring fishing activities, to ensure better food safety and quality by safeguarding the environment;*

## Amendment 32

### Proposal for a regulation

#### Article 50 – paragraph 1 – point b

*Text proposed by the Commission*

*Amendment*

(b) emergency management service to provide information in support of public authorities concerned with civil protection established in the Union, supporting civil protection and emergency response operations (improving early warning activities and crisis response capacities), and prevention and preparedness actions (risk and recovery analyses) in relation to different types of disasters;

(b) emergency management service to provide information in support of public authorities concerned with civil protection established in the Union, supporting civil protection and emergency response operations (improving early warning activities and crisis response capacities), and prevention and preparedness actions (risk and recovery analyses) in relation to different types of disasters, *including fires*;

## Amendment 33

### Proposal for a regulation

#### Article 51 – paragraph 1

*Text proposed by the Commission*

*Amendment*

1. Copernicus shall include actions to provide access to all Copernicus data and Copernicus information and, where appropriate, provide additional infrastructure and services to foster the distribution, access and use of those data and information.

1. Copernicus shall include actions to provide access to all Copernicus data and Copernicus information and, where appropriate, provide additional infrastructure and services to foster the distribution, access and use of those data and information. *Specific actions on awareness and training on the services provided by Copernicus towards specific potential users will be also provided, as well as incentivising measures to*

*encourage farmers for using Copernicus-based services in the context of CAP. Specific actions shall also be established to support the access to Copernicus data and strengthen the uptake of Copernicus-based services by regional and local authorities.*



## PROCEDURE – COMMITTEE ASKED FOR OPINION

<b>Title</b>	Establishing the space programme of the Union and the European Union Agency for the Space Programme						
<b>References</b>	COM(2018)0447 – C8-0258/2018 – 2018/0236(COD)						
<b>Committee responsible</b> Date announced in plenary	ITRE 14.6.2018						
<b>Opinion by</b> Date announced in plenary	AGRI 14.6.2018						
<b>Rapporteur</b> Date appointed	Hilde Vautmans 4.7.2018						
<b>Date adopted</b>	9.10.2018						
<b>Result of final vote</b>	<table> <tr> <td>+:                   </td><td>32</td></tr> <tr> <td>–:                   </td><td>3</td></tr> <tr> <td>0:                   </td><td>1</td></tr> </table>	+:	32	–:	3	0:	1
+:	32						
–:	3						
0:	1						
<b>Members present for the final vote</b>	John Stuart Agnew, Clara Eugenia Aguilera García, José Bové, Daniel Buda, Nicola Caputo, Matt Carthy, Michel Dantin, Paolo De Castro, Albert Deß, Jørn Dohrmann, Herbert Dorfmann, Norbert Erdős, Luke Ming Flanagan, Karine Gloanec Maurin, Esther Herranz García, Jan Huitema, Martin Häusling, Peter Jahr, Ivan Jakovčić, Jarosław Kalinowski, Zbigniew Kuźmiuk, Norbert Lins, Philippe Loiseau, Mairead McGuinness, Ulrike Müller, Maria Noichl, Marijana Petir, Laurențiu Rebega, Bronis Ropė, Maria Lidia Senra Rodríguez, Czesław Adam Siekierski, Maria Gabriela Zoană						
<b>Substitutes present for the final vote</b>	Elsi Katainen, Susanne Melior, Momchil Nekov, Annie Schreijer-Pierik, Ramón Luis Valcárcel Siso						
<b>Substitutes under Rule 200(2) present for the final vote</b>	Stanisław Ożóg						

## FINAL VOTE BY ROLL CALL IN COMMITTEE ASKED FOR OPINION

32	+
ALDE	Jan Huitema, Ivan Jakovčić, Elsi Katainen, Ulrike Müller
ECR	Jørn Dohrmann, Zbigniew Kuźmiuk, Stanisław Ożóg, Laurențiu Rebega
ENF	Philippe Loiseau
PPE	Daniel Buda, Michel Dantin, Albert Deß, Herbert Dorfmann, Norbert Erdős, Esther Herranz García, Jarosław Kalinowski, Norbert Lins, Mairead McGuinness, Marijana Petir, Czesław Adam Siekierski, Ramón Luis Valcárcel Siso
S&D	Clara Eugenia Aguilera García, Nicola Caputo, Paolo De Castro, Karine Gloanec Maurin, Susanne Melior, Momchil Nekov, Maria Noichl, Maria Gabriela Zoană
Verts/ALE	José Bové, Martin Häusling, Bronis Ropé

3	-
EFDD	John Stuart Agnew
GUE/NGL	Matt Carthy, Maria Lidia Senra Rodríguez

1	0
GUE/NGL	Luke Ming Flanagan

Key to symbols:

+ : in favour

- : against

0 : abstention

## PROCEDURE – COMMITTEE RESPONSIBLE

<b>Title</b>	Establishing the space programme of the Union and the European Union Agency for the Space Programme			
<b>References</b>	COM(2018)0447 – C8-0258/2018 – 2018/0236(COD)			
<b>Date submitted to Parliament</b>	7.6.2018			
<b>Committee responsible</b> Date announced in plenary	ITRE 14.6.2018			
<b>Committees asked for opinions</b> Date announced in plenary	AFET 14.6.2018	BUDG 14.6.2018	ENVI 14.6.2018	TRAN 5.7.2018
	AGRI 14.6.2018			
<b>Not delivering opinions</b> Date of decision	AFET 20.6.2018			
<b>Rapporteurs</b> Date appointed	Massimiliano Salini 12.6.2018			
<b>Discussed in committee</b>	9.7.2018                      8.10.2018			
<b>Date adopted</b>	21.11.2018			
<b>Result of final vote</b>	+:                      54 –:                      7 0:                      0			
<b>Members present for the final vote</b>	Zigmantas Balčytis, Bendt Bendtsen, Xabier Benito Ziluaga, David Borrelli, Jonathan Bullock, Cristian-Silviu Buşoi, Jerzy Buzek, Edward Czesak, Jakop Dalunde, Pilar del Castillo Vera, Christian Ehler, Fredrick Federley, Ashley Fox, Adam Gierek, Igor Gräzin, Theresa Griffin, András Gyürk, Barbara Kappel, Krišjānis Kariņš, Jaromír Kohlíček, Peter Kouroumbashev, Zdzisław Krasnodębski, Miapetra Kumpula-Natri, Christelle Lechevalier, Janusz Lewandowski, Paloma López Bermejo, Edouard Martin, Tilly Metz, Angelika Mlinar, Csaba Molnár, Nadine Morano, Dan Nica, Angelika Niebler, Morten Helveg Petersen, Miroslav Poche, Carolina Punset, Paul Rübig, Massimiliano Salini, Algirdas Saudargas, Neoklis Sylikiotis, Dario Tamburrano, Patrizia Toia, Evžen Tošenovský, Vladimir Urutchev, Kathleen Van Brempt, Henna Virkkunen, Lieve Wierinck, Hermann Winkler, Anna Záborská, Flavio Zanonato, Carlos Zorrinho			
<b>Substitutes present for the final vote</b>	Amjad Bashir, Soledad Cabezón Ruiz, Françoise Grossetête, Benedek Jávor, Olle Ludvigsson, Marian-Jean Marinescu, Clare Moody, Dennis Radtke, Davor Škrlec			
<b>Substitutes under Rule 200(2) present for the final vote</b>	Bolesław G. Piecha			
<b>Date tabled</b>	27.11.2018			

## FINAL VOTE BY ROLL CALL IN COMMITTEE RESPONSIBLE

54	+
ALDE	Fredrick Federley, Igor Gräzin, Angelika Mlinar, Morten Helveg Petersen, Carolina Punset, Lieve Wierinck
ECR	Edward Czesak, Zdzisław Krasnodębski, Bolesław G. Piecha, Evžen Tošenovský
EFDD	Dario Tamburrano
ENF	Barbara Kappel
GUE/NGL	Jaromír Kohlíček
NI	David Borrelli
PPE	Bendt Bendtsen, Cristian-Silviu Buşoi, Jerzy Buzek, Pilar del Castillo Vera, Christian Ehler, Françoise Grossetête, András Gyürk, Krišjānis Kariņš, Janusz Lewandowski, Marian-Jean Marinescu, Nadine Morano, Angelika Niebler, Dennis Radtke, Paul Rübig, Massimiliano Salini, Algirdas Saudargas, Vladimir Urutchev, Henna Virkkunen, Hermann Winkler, Anna Záborská
S&D	Zigmantas Balčytis, Soledad Cabezón Ruiz, Adam Gierek, Theresa Griffin, Peter Kouroumbashev, Miapetra Kumpula-Natri, Olle Ludvigsson, Edouard Martin, Csaba Molnár, Clare Moody, Dan Nica, Miroslav Poche, Patrizia Toia, Kathleen Van Brempt, Flavio Zanonato, Carlos Zorrinho
VERTS/ALE	Jakop Dalunde, Benedek Jávor, Tilly Metz, Davor Škrlec

7	-
ECR	Amjad Bashir, Ashley Fox
EFDD	Jonathan Bullock
ENF	Christelle Lechevalier
GUE/NGL	Xabier Benito Ziluaga, Paloma López Bermejo, Neoklis Sylikiotis

0	0

Key to symbols:

+ : in favour

- : against

0 : abstention