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THE EUROPEAN PARLIAMENT

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REGULATION
OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL
ESTABLISHING THE COPERNICUS PROGRAMME
AND REPEALING REGULATION (EU) No 911/2010

**REGULATION (EU) No .../2014
OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL**

of 3 April 2014

**establishing the Copernicus Programme
and repealing Regulation (EU) No 911/2010**

(Text with EEA relevance)

THE EUROPEAN PARLIAMENT AND THE COUNCIL OF THE EUROPEAN UNION,

Having regard to the Treaty on the Functioning of the European Union, and in particular Article 189(2) thereof,

Having regard to the proposal from the European Commission,

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

Having regard to the opinion of the European Economic and Social Committee¹,

After consulting the Committee of the Regions,

Acting in accordance with the ordinary legislative procedure²,

¹ Opinion of 16 October 2013.

² Position of the European Parliament of 12 March 2014 (not yet published in the Official Journal) and decision of the Council of 24 March 2014.

Whereas:

- (1) Global Monitoring for Environment and Security (GMES) was an Earth monitoring initiative led by the Union and carried out in partnership with the Member States and the European Space Agency (ESA). The origins of GMES date back to May 1998, when institutions involved in the development of space activities in Europe made a joint declaration known as the 'Baveno Manifesto'. The Manifesto called for a long-term commitment to the development of space-based environmental monitoring services, making use of, and further developing, European skills and technologies. In 2005, the Union made the strategic choice of developing jointly with ESA an independent European Earth observation capacity to deliver services in the environmental and security fields.
- (2) Building on that initiative, Regulation (EU) No 911/2010 of the European Parliament and of the Council¹ established the European Earth monitoring programme (GMES) and the rules for the implementation of its initial operations.
- (3) While the programme set up under Regulation (EU) No 911/2010 should continue under the multiannual financial framework 2014-2020, established by Council Regulation (EU, Euratom) No 1311/2013², the acronym 'GMES' should be replaced by the name of 'Copernicus' in order to facilitate the communication with the public at large. The Commission has registered the trademark so that it can be used by the Union institutions and licensed to other interested users, in particular the providers of core services.

¹ 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).

² Council Regulation (EU, Euratom) No 1311/2013 of 2 December 2013 laying down the multiannual financial framework for the years 2014-2020 (OJ L 347, 20.12.2013, p. 884).

- (4) The Copernicus programme (Copernicus) is based on a partnership between the Union, ESA and 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 in situ assets.
- (5) In order to attain its objectives, Copernicus should ensure an autonomous Union capacity for spaceborne observations and provide operational services in the field of the environment, civil protection and civil security, fully respecting national mandates on official warnings. It should also make use of the available contributing missions and in situ data provided mainly by the Member States. To the greatest extent possible, Copernicus should make use of capacities for spaceborne observations and services of Member States. Copernicus should also make use of the capacities of commercial initiatives in Europe, thereby also contributing to the development of a viable commercial space sector in Europe. In addition, systems to optimise the transmission of data should be promoted to further enhance capabilities in response to growing user demand for near real-time data.
- (6) To promote and facilitate the use of Earth observation technologies both by local authorities and by small and medium-sized enterprises (SMEs), dedicated networks for Copernicus data distribution, including national and regional bodies, should be promoted.
- (7) The objective of Copernicus should be to provide accurate and reliable information in the field of the environment and security, tailored to the needs of users and supporting other Union policies, in particular relating to the internal market, transport, environment, energy, civil protection and civil security, cooperation with third countries and humanitarian aid.

- (8) Copernicus should be considered as a European contribution to building the Global Earth Observation System of Systems (GEOSS) developed within the framework of the Group on Earth Observations (GEO).
- (9) Copernicus should be implemented consistently with other relevant Union instruments and actions, in particular with environmental and climate change actions, and instruments in the field of security, protection of personal data, competitiveness and innovation, cohesion, research, transport, competition and international cooperation, and with the European satellite navigation systems (Galileo and EGNOS). Copernicus data should be compliant with Member States' spatial reference data as well as with implementing rules and technical guidelines of the infrastructure for spatial information in the Union established by Directive 2007/2/EC of the European Parliament and of the Council¹. Copernicus should also complement the Shared Environmental Information System (SEIS), as referred to in the Commission Communication of 1 February 2008 entitled: Towards a Shared Environmental Information System (SEIS), and Union activities in the field of emergency response. Copernicus should be implemented in accordance with the objectives of Directive 2003/98/EC of the European Parliament and of the Council² on the re-use of public sector information, in particular transparency, the creation of conditions conducive to the development of services, and contributing to economic growth and job creation. Copernicus data and Copernicus information should be available freely and openly to support the Digital Agenda for Europe, as referred to in the Commission Communication of 26 August 2010 entitled: A Digital Agenda for Europe.

¹ 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) (OJ L 108, 25.4.2007, p. 1).

² Directive 2003/98/EC of the European Parliament and of the Council of 17 November 2003 on the re-use of public sector information (OJ L 345, 31.12.2003, p. 90).

- (10) Copernicus is a programme to be delivered under the Europe 2020 strategy for smart, sustainable and inclusive growth (the 'Europe 2020 strategy'). It should benefit a wide range of Union policies and contribute to reaching the objectives of the Europe 2020 strategy, in particular by developing an effective space policy to provide the tools to address some of the key global challenges and meet the targets on climate change and energy sustainability. Copernicus should also support the implementation of the European space policy and support the growth of European markets for space-based data and services.
- (11) Copernicus should also benefit from the results provided by Horizon 2020, established by Regulation (EU) No 1291/2013 of the European Parliament and of the Council¹, in particular through its activities in research and innovation for future Earth Observation technologies and applications using remote sensing, airborne and in situ technologies and data to respond to the major societal challenges. The Commission should ensure appropriate synergy, transparency and clarity regarding the different aspects of Copernicus.
- (12) The evolution of the Copernicus space component should be based on an analysis of options to meet evolving user needs, including procurement from national/public missions and commercial providers in Europe, specification of new dedicated missions, international agreements ensuring access to non-European missions, and the European Earth observation market.

¹ Regulation (EU) No 1291/2013 of the European Parliament and of the Council of 11 December 2013 establishing Horizon 2020 — the Framework Programme for Research and Innovation (2014-2020) and repealing Decision No 1982/2006 (OJ L 347, 20.12.2013, p. 104).

- (13) For the sake of clarity and in order to facilitate cost control, the maximum amount allocated by the Union to implement the Copernicus activities should be broken down into various categories. Nonetheless, in the interest of flexibility and to ensure the smooth running of Copernicus, the Commission should be able to re-allocate funds from one category to another.
- (14) The provision of operational services depends on the good functioning, continued availability and safety of the Copernicus space component. The increasing risk of collision with other satellites and space debris is a serious threat to the Copernicus space component. Therefore, the Copernicus activities should include the protection of the Copernicus space component and its operations, including during the launch of satellites. In this respect, a proportionate contribution to the costs of services capable of providing such protection could be financed by the budget allocated to Copernicus insofar as possible following rigorous cost management and full compliance with the maximum amount of EUR 26,5 million in current prices established in this Regulation. Such contribution should be used only for the provision of data and services and not for the purchase of infrastructure.
- (15) With a view to improving the implementation of Copernicus and its long-term planning, the Commission should adopt an annual work programme, including an implementation plan of the actions required to meet the objectives of Copernicus. That implementation plan should be forward-looking and should describe the actions needed to implement Copernicus taking into account evolving user needs and technological developments.

- (16) The implementation of the Copernicus service component should be based on technical specifications given the complexity and resources allocated to Copernicus. This would also 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. Therefore, the Commission should adopt and update, as necessary, technical specifications for all Copernicus services addressing aspects such as scope, architecture, technical service portfolios, indicative cost break-down and planning, performance levels, space and in situ data access needs, evolution, standards, archiving and dissemination of data.
- (17) The implementation of the Copernicus space component should be based on technical specifications given the complexity and resources allocated to Copernicus. Therefore, the Commission should adopt and update, as necessary, technical specifications detailing the activities to be supported under the Copernicus space component and their indicative cost break-down and planning. Since Copernicus should build on investments made by the Union, ESA and Member States in the context of the Global Monitoring for Environment and Security, the activities under the Copernicus space component should take into consideration, where appropriate, elements of the ESA Long-Term Scenario (LTS) which is a document prepared and updated by ESA, establishing an overall framework for the Copernicus space component.
- (18) Copernicus should be user-driven, thus requiring the continuous, effective involvement of users, particularly regarding the definition and validation of service requirements.

- (19) The international dimension of Copernicus is of particular relevance in the exchange of data and information, as well as in access to observation infrastructure. Such exchange is more cost-efficient than data-buy schemes and strengthens the global dimension of Copernicus.
- (20) The European Economic Area (EEA) Agreement and the Framework Agreements with candidate countries and potential candidates provide for participation by those countries in Union programmes. Participation by other third countries and international organisations should be made possible by the conclusion of international agreements to that effect.
- (21) Member States, third countries and international organisations should be free to contribute to the programmes on the basis of appropriate agreements.
- (22) The Commission should have overall responsibility for Copernicus. It should define the priorities and ensure the overall coordination and supervision of Copernicus. That should also include special efforts leading to raising public awareness about the importance of space programmes for European citizens. It should provide the European Parliament and the Council with all relevant information pertaining to Copernicus in a timely manner.

- (23) In the implementation of Copernicus, the Commission should rely, where appropriate, on European intergovernmental organisations with whom it has already established partnerships, in particular ESA for the technical coordination of the Copernicus space component, the definition of its architecture, the development and procurement of space assets, data access and the operation of dedicated missions. In addition, the Commission should also rely on the European Organisation for the Exploitation of Meteorological Satellites (EUMETSAT) for the operation of dedicated missions in accordance with its expertise and mandate.
- (24) Taking into account the partnership dimension of Copernicus and in order to avoid duplication of technical expertise, the implementation of Copernicus should be delegated to entities with the appropriate technical and professional capacity. Such entities should be encouraged to open the execution of those tasks to competition up to an adequate level in accordance with Regulation (EU, Euratom) No 966/2012 of the European Parliament and of the Council¹ ('the Financial Regulation').

¹ Regulation (EU, Euratom) No 966/2012 of the European Parliament and of the Council of 25 October 2012 on the financial rules applicable to the general budget of the Union and repealing Council Regulation (EC, Euratom) No 1605/2002 (OJ L 298, 26.10.2012, p. 1).

- (25) Copernicus should include a service component ensuring delivery of information in atmosphere monitoring, marine environment monitoring, land monitoring, climate change, emergency management and security. In particular, Copernicus should deliver information on the state of the atmosphere including at the local, national, European and global scale; information on the state of the oceans, including through the setting-up of a dedicated European grouping for marine monitoring; information in support of land monitoring supporting the implementation of local, national and European policies; information in support of climate change adaptation and mitigation; geospatial information in support of emergency management, including through prevention activities, and civil security including support for the Union's external action. The Commission should identify appropriate contractual arrangements fostering the sustainability of service provision.
- (26) In the implementation of Copernicus service component, the Commission may rely, where duly justified by the special nature of the action and specific expertise, on competent entities, such as the European Environment Agency, the European Agency for the Management of Operational Cooperation at the External Borders of the Member States of the European Union (FRONTEX), the European Maritime Safety Agency (EMSA) and the European Union Satellite Centre (SATCEN), the European Centre for Medium-Range Weather Forecasts (ECMWF), other relevant European agencies, groupings or consortia of national bodies, or any relevant body potentially eligible for a delegation in accordance with the Financial Regulation. The choice of the entity should take due account of the cost efficiency of entrusting those tasks and the impact on the entity's governance structure and on its financial and human resources.

- (27) The Joint Research Centre (JRC) of the Commission has been actively involved in the GMES initiative and in the implementation of the GMES initial operations established under Regulation (EU) No 911/2010. The Commission should continue relying on the JRC's scientific and technical support for the implementation of Copernicus.
- (28) Public procurement of the entities entrusted with the implementation of Copernicus should be compatible with Union rules or equivalent international standards, to the extent allowable by the provisions on public contracts in the Financial Regulation. Specific adjustments necessary to these rules, as well as the arrangements for the prolongation of the existing contracts, should be defined in the corresponding delegation agreements. It should aim, first and foremost, to obtain best value for money, control costs, mitigate risks, improve efficiency and reduce reliance on a single supplier. Open access and fair competition throughout the supply chain and the balanced offering of participation opportunities to industry at all levels, including, in particular, new entrants and SMEs, should be ensured. Possible abuse of dominant position and of long-term reliance on single suppliers should be avoided. In order to mitigate programme risks, to avoid reliance on a single source of supply and to ensure better overall control of Copernicus and its costs and schedule, multiple sourcing should be pursued, wherever appropriate. Moreover, the development of European industry should be preserved and promoted in all areas relating to Earth observation, in accordance with international agreements to which the Union is Part.

- (29) The risk of poor contract performance or of non-performance should be mitigated as much as possible. To that end, contractors should demonstrate the sustainability of their contractual performance with respect to the commitments undertaken and the duration of the contract. Therefore, contracting authorities should, wherever appropriate, specify requirements relating to the reliability of supplies and of the provision of services. In addition, in the case of the purchase of goods and services of a sensitive nature, contracting authorities may subject such purchase to specific requirements, particularly with a view to ensuring security of information. Union industries should be permitted to rely on non-Union sources for certain components and services where substantial advantages are demonstrated in terms of quality and costs, taking account, however, of the strategic nature of Copernicus and of Union security and export control requirements. Advantage should be taken of public sector investment and industrial experience and competence, while ensuring that the rules on competitive tendering are not contravened.
- (30) In order to better evaluate the total cost of a product, service or work being tendered, including its long term operational cost, the total cost over the useful lifecycle of the product, service or work being tendered should be taken into account wherever appropriate during the procurement, by using a cost effectiveness approach such as lifecycle costing when pursuing procurement based on the criterion of the most economically advantageous tender award. For that purpose, the contracting authority should make sure that the methodology intended to compute the costs for the useful lifecycle of a product, service or work is expressly mentioned in the contract documents or the contract notice and that it allows the accuracy of the information supplied by the tenderers to be verified.

- (31) The contracting authority should be able to restore a level playing-field when one or more companies have, prior to a call for tenders, privileged information on the activities associated with the call for tender. It should 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 even impose a minimum level of subcontracting. Finally, due to the technological uncertainties that are a feature of Copernicus, contract prices cannot always be forecast accurately and it is therefore desirable to conclude contracts in a specific form that do not stipulate a firm fixed price and include clauses to safeguard the financial interests of the Union.
- (32) With a view to keeping Copernicus in its maximum amount by reducing to the largest extent technical and schedule risks and their associated cost and ensuring sustained reliability of supply, Copernicus should make maximum use of prior public sector financial and infrastructure investments as well as of the industrial experience and competence acquired through such investments in GMES. This should be particularly true for what concerns the recurrent space and ground segment components developed by ESA and its Participating States in the context of the GMES Space Component optional programme with a financial participation of the Union. In the latter case use of the negotiated procedure without prior publication of a contract notice or its equivalent should be duly considered by the contracting authority.

- (33) In order to achieve the objectives of Copernicus on a sustainable basis, it is necessary to coordinate the activities of the various partners involved in Copernicus, and to develop, establish and operate a service and observation capacity meeting the demands of users. In this context, a committee (the Copernicus Committee) should assist the Commission in ensuring the coordination of contributions to Copernicus by the Union, the Member States and inter-governmental organisations as well as coordination with the private sector, making the best use of existing capacities and identifying gaps to be addressed at Union level. It should also assist the Commission in monitoring the coherent implementation of Copernicus. As sound public governance requires uniform management of Copernicus, faster decision-making and equal access to information, representatives of entities entrusted with budget implementation tasks should be able to take part as observers in the work of the Copernicus Committee. For the same reasons, representatives of third countries and international organisations who have concluded an international agreement with the Union should be able to take part in the work of the Copernicus Committee subject to security constraints and as provided for in the terms of such agreement. Such representatives should not be entitled to take part in the Copernicus Committee voting procedures.
- (34) The work of the entities to which the Commission has delegated implementation tasks should also be measured against performance indicators. This would provide the European Parliament and the Council with an indication of the progress of the Copernicus operations and Copernicus implementation.

- (35) The Commission Delegated Regulation (EU) No. 1159/2013¹ has established the registration and licensing conditions for GMES users and has defined criteria for restricting access to GMES dedicated data and GMES service information.
- (36) The data and information produced in the framework of Copernicus should be made available on a full, open and free-of-charge basis subject to appropriate conditions and limitations, in order to promote their use and sharing, and to strengthen European Earth observation markets, in particular the downstream sector, thereby enabling growth and job creation.
- (37) The Commission should work with data providers to agree licensing conditions for third-party data to facilitate their use within Copernicus, in compliance with this Regulation and applicable third-party rights.
- (38) The access rights to Copernicus Sentinel data granted under the GMES Space Component Programme as approved by the ESA Programme Board on Earth Observation on 24 September 2013 should be taken into account.

¹ Commission Delegated Regulation (EU) No 1159/2013 of 12 July 2013 supplementing Regulation (EU) No 911/2010 of the European Parliament and of the Council on the European Earth monitoring programme (GMES) by establishing registration and licensing conditions for GMES users and defining criteria for restricting access to GMES dedicated data and GMES service information (OJ L 309, 19.11.2013, p. 1).

- (39) Since Copernicus is a civil programme under civil control, priority should be given to the acquisition of data and the production of information, including high-resolution images, that do not constitute a risk or threat for the security of the Union or its Member States. However, as some Copernicus data and Copernicus information may require protection, to ensure the secure circulation of such information, within the scope of this Regulation, all participants in Copernicus should ensure a degree of protection of EU classified information equivalent to that provided by the rules on security as set out in the Annex to Commission Decision 2001/844/EC, ECSC, Euratom¹ and by the security rules of the Council set out in the Annexes to Council Decision 2013/488/EU².
- (40) As some Copernicus data and Copernicus information, including high-resolution images, may have an impact on the security of the Union or its Member States, in duly justified cases, the Council should be empowered to adopt the measures in order to deal with risks and threats to the security of the Union or its Member States.

¹ Commission Decision 2001/844/EC, ECSC, Euratom of 29 November 2001 amending its internal Rules of Procedure (OJ L 317, 3.12.2001, p. 1).

² Council Decision 2013/488/EU of 23 September 2013 on the security rules for protecting EU classified information (OJ L 274, 15.10.2013, p. 1).

- (41) The Union should be the owner of all tangible and intangible assets created or developed under Copernicus. In order to comply fully with any fundamental rights relating to ownership, the necessary arrangements should be made with existing owners. It should be understood that the provisions on ownership of intangible assets laid down in this Regulation do not cover intangible rights that are not transferable under relevant national laws. Such ownership by the Union should be without prejudice to the possibility for the Union, in accordance with this Regulation and where it is deemed appropriate on the basis of a case-by-case assessment, to make those assets available to third parties or to dispose of them. In particular, the Union should be able to transfer the ownership of, or license the intellectual property rights arising from, work under Copernicus in the interest of a strong uptake of Copernicus services by downstream users.
- (42) The financial interests of the Union should be protected through proportionate measures throughout the expenditure cycle, including the prevention, detection and investigation of irregularities, the recovery of funds lost, wrongly paid or incorrectly used and, where appropriate, administrative and financial penalties in accordance with the Financial Regulation.

- (43) Since Copernicus is a complex programme, the Commission should be assisted by independent experts from a broad constituency of stakeholders, including in particular experts nominated by Member States on security issues, representatives of relevant national entities responsible for space and Copernicus users, to provide it with the necessary technical and scientific expertise, as well as inter-disciplinary and cross-sectoral perspectives, taking account of relevant existing initiatives at Union, national and regional levels.
- (44) In order to ensure uniform conditions for the implementation of this Regulation as regards the adoption of the annual work programme, the technical specifications for the service and space components, security aspects and the measures to promote the convergence of Member States in the use of Copernicus data and Copernicus information and their access to the technology and development in Earth Observation, implementing powers should be conferred on the Commission. Those powers should be exercised in accordance with Regulation (EU) No 182/2011 of the European Parliament and of the Council¹.
- (45) Since Copernicus is user driven, it requires the continuous, effective involvement of users, particularly regarding the definition and validation of service requirements. In order to increase the value of users, their input should be actively sought through regular consultation with end-users from the public and private sectors. For that purpose, a working group (the 'User Forum') should be set up to assist the Copernicus Committee with the identification of user requirements, the verification of service compliance and the coordination of public sector users.

¹ Regulation (EU) No 182/2011 of the European Parliament and of the Council of 16 February 2011 laying down the rules and general principles concerning mechanisms for control by Member States of the Commission's exercise of implementing powers (OJ L 55, 28.2.2011, p. 13).

- (46) The power to adopt acts in accordance with Article 290 of the Treaty on the Functioning of the European Union (TFEU) should be delegated to the Commission in respect of the data requirements necessary for the evolution of operational services, the conditions and procedures regarding access to, registration and use of Copernicus data and Copernicus information, the specific technical criteria necessary to prevent the disruption of Copernicus data and Copernicus information-and the criteria for the restriction of acquisition or dissemination of Copernicus data and Copernicus information due to conflicting rights. It is of particular importance that the Commission carry out appropriate consultations during its preparatory work, including at expert level. The Commission, when preparing and drawing up delegated acts, should ensure a simultaneous, timely and appropriate transmission of relevant documents to the European Parliament and to the Council.
- (47) The actions financed under this Regulation should be monitored and evaluated in order to allow for readjustments and new evolutions. In particular, the evaluation should assess the effects of the Copernicus data and Copernicus information policy on stakeholders, downstream users, the influence on business as well as on national and private investments in Earth observation infrastructures. The evaluation should also address the possible future involvement of relevant European agencies, such as the European GNSS Agency. In order to maximise the results and capitalise on the knowledge and expertise acquired through the implementation phases of Copernicus, new organisation models should be explored for future planning, ensuring long-term economic commitment.

- (48) Since the objective of this Regulation, namely the establishment of Copernicus, cannot be sufficiently achieved by the Member States because it will also comprise pan-European capacity and depend on the coordinated provision of services throughout the Member States that needs to be coordinated at Union level, but can rather, by reason of the scale of the action, be better achieved at Union level, the Union may adopt measures, in accordance with the principle of subsidiarity as set out in Article 5 of the Treaty on European Union. In accordance with the principle of proportionality, as set out in that Article, this Regulation does not go beyond what is necessary in order to achieve that objective.
- (49) This Regulation lays down a financial envelope, which is to constitute the prime reference amount, within the meaning of point 17 of the Interinstitutional Agreement of 2 December 2013 between the European Parliament, the Council and the Commission on budgetary discipline, on cooperation in budgetary matters and on sound financial management¹, for the European Parliament and the Council during the annual budgetary procedure.
- (50) It is appropriate to align the period of funding of this Regulation with that provided for in Regulation (EU, Euratom) No 1311/2013. Therefore, this Regulation should apply from 1 January 2014.

¹ OJ C 373, 20.12.2013, p. 1.

- (51) It is also necessary to repeal Regulation (EU) No 911/2010 in order to establish an appropriate framework for governance and funding and to ensure a fully operational Copernicus. Any measure adopted on the basis of Regulation (EU) No 911/2010 should remain valid in order to ensure its continuity,

HAVE ADOPTED THIS REGULATION:

CHAPTER I

GENERAL AND FINANCIAL PROVISIONS

Article 1

Subject matter

This Regulation establishes Copernicus, the Union Earth observation and monitoring programme, (Copernicus), and lays down the rules for its implementation.

Article 2

Scope

1. Copernicus is a civil, user driven programme under civil control, building on the existing national and European capacities, as well as ensuring continuity with the activities achieved under the Global Monitoring for Environment and Security.
2. Copernicus consists of the following components:
 - (a) a service component ensuring delivery of information in the following areas: atmosphere monitoring, marine environment monitoring, land monitoring, climate change, emergency management and security;
 - (b) a space component ensuring sustainable spaceborne observations for the service areas referred to in point (a);

- (c) an in situ component ensuring coordinated access to observations through airborne, seaborne and ground based installations for the service areas referred to in point (a).
3. Appropriate links and interfaces between the components referred to in paragraph 2 shall be established.

Article 3

Definitions

For the purposes of this Regulation the following definitions apply:

- (1) "dedicated missions" means the space-based Earth observation missions for use and operated in Copernicus, in particular the Sentinel missions;
- (2) "contributing missions" means space-based Earth observation missions providing data to Copernicus complementing data provided by the dedicated missions;
- (3) "dedicated mission data" means spaceborne Earth observation data from dedicated missions for use in Copernicus;
- (4) "contributing mission data" means spaceborne Earth observation data from contributing missions licensed or provided for use in Copernicus;
- (5) "in situ data" means observation data from ground-, sea- or air-borne sensors as well as reference and ancillary data licensed or provided for use in Copernicus;

- (6) "third party data and information" means data and information created outside the scope of Copernicus and necessary for the implementation of its objectives;
- (7) "Copernicus data" means dedicated mission data, contributing mission data and in situ data;
- (8) "Copernicus information" means information from the Copernicus services referred to in Article 5(1) following processing or modelling of Copernicus data;
- (9) "Copernicus users" means:
 - (a) Copernicus core users: Union institutions and bodies, European, national, regional or local authorities entrusted with the definition, implementation, enforcement or monitoring of a public service or policy in the areas referred to in point (a) of Article 2(2);
 - (b) research users: universities or any other research and education organisations;
 - (c) commercial and private users;
 - (d) charities, non-governmental organisations and international organisations.

Article 4
Objectives

1. Copernicus shall contribute to the following general objectives:
 - (a) monitoring the Earth to support the protection of the environment and the efforts of civil protection and civil security;
 - (b) maximising socio-economic benefits, thereby supporting the Europe 2020 strategy and its objectives of smart, sustainable and inclusive growth by promoting the use of Earth observation in applications and services;
 - (c) fostering the development of a competitive European space and services industry and maximising opportunities for European enterprises to develop and provide innovative Earth observation systems and services;
 - (d) ensuring autonomous access to environmental knowledge and key technologies for Earth observation and geoinformation services, thereby enabling Europe to achieve independent decision-making and action;
 - (e) supporting and contributing to European policies and fostering global initiatives, such as GEOSS.

2. In order to attain the general objectives set out in paragraph 1, Copernicus shall have the following specific objectives:
 - (a) delivering accurate and reliable data and information to Copernicus users, supplied on a long-term and sustainable basis enabling the services referred to in Article 5(1) and responding to the requirements of Copernicus core users;
 - (b) providing sustainable and reliable access to spaceborne data and information from an autonomous European Earth observation capacity with consistent technical specifications and building on existing European and national assets and capabilities, complementing them whenever necessary;
 - (c) providing a sustainable and reliable access to in situ data, relying, in particular, on existing capacities operated at European and national levels, and on global observation systems and networks.

3. The achievement of the objectives set out in paragraphs 1 and 2 shall be measured by the following result indicators:
 - (a) Copernicus data and Copernicus information made available in accordance with the respective service-level delivery requirements for the environment, civil protection and civil security;

- (b) increased demand for Copernicus data and Copernicus information measured by the progression in number of users, by the volume of accessed data and added-value information, by the increased number of downstream services, and by the widening of distribution across Member States and the Union;
- (c) use of Copernicus data and Copernicus information by Union institutions and bodies, international organisations and European, national, regional or local authorities, including the level of user uptake and satisfaction, and the benefits provided to European societies;
- (d) market penetration, including expansion of the existing markets and creation of new markets and competitiveness of the European downstream operators;
- (e) sustained availability of Copernicus data supporting Copernicus services.

Article 5

Copernicus service-component

1. The Copernicus service component shall consist of the following services:
 - (a) the atmosphere monitoring service, which is to provide information on air quality on a European scale, and the chemical composition of the atmosphere on a global scale. It shall in particular provide information for air quality monitoring systems run at the local to national scales, and contribute to the monitoring of atmospheric composition climate variables, including, where feasible, the interaction with forest canopies;

- (b) the marine environment monitoring service, which is to provide information on the state and dynamics of physical ocean and marine ecosystems for the global ocean and the European regional marine areas, in support of marine safety, contribution to monitoring of waste flows, marine environmental, coastal and polar regions, and of marine resources as well as meteorological forecasting and climate monitoring;
- (c) the land monitoring service, which is to provide information on land use and land cover, cryosphere, climate change and biogeophysical variables, including their dynamics, in support of the global-to-local environmental monitoring of biodiversity, soil, inland and coastal waters, forests and vegetation, and natural resources, as well as implementation in general of environment, agriculture, development, energy, urban planning, infrastructure and transport policies;
- (d) the climate change service, which is to provide information to increase the knowledge base to support adaptation and mitigation policies. It shall in particular contribute to the provision of Essential Climate Variables, climate analyses, projections and indicators at temporal and spatial scales relevant to adaptation and mitigation strategies for the various Union's sectoral and societal benefit areas;
- (e) the emergency management service, which is to provide information for emergency response in relation to different types of disasters, including meteorological hazards, geophysical hazards, deliberate and accidental man-made disasters and other humanitarian disasters, as well as the prevention, preparedness, response and recovery activities;

(f) the security service, which is to provide information in support of the civil security challenges of Europe improving crisis prevention, preparedness and response capacities, in particular for border and maritime surveillance, but also support for the Union's external action, without prejudice to cooperation arrangements which may be concluded between the Commission and various Common Foreign and Security Policy bodies, in particular the European Union Satellite Centre.

2. The provision of the services referred to in paragraph 1 shall take into account the principles of subsidiarity and proportionality, be cost-effective and decentralised where appropriate, integrating at European level existing space, in situ and reference data and capacities in Member States, thereby avoiding duplication. Procurement of new data that duplicate existing sources shall be avoided, unless the use of existing or upgradable data sets is not technically feasible, cost-effective or possible in a timely manner.

The services shall implement rigorous quality control systems and shall provide information about service levels, including availability, reliability, quality and timeliness.

3. In order to ensure the evolution of the services referred to in paragraph 1 and their public sector uptake, the following activities shall also be undertaken:

(a) development activities aimed at improving the quality and performance of-services, including their evolution and adaptation, avoiding or mitigating the operational risks as well as exploiting synergies with related activities, such as under Horizon 2020;

- (b) support activities consisting in measures to promote the use and uptake of Copernicus data and Copernicus information by:
 - (i) public authorities entrusted with the definition, implementation, enforcement or monitoring of a public service or policy in areas referred to in paragraph 1. This shall include capacity building and development of standard procedures and tools to integrate Copernicus data and Copernicus information into users' workflow;
 - (ii) other users and downstream applications. That shall include outreach, training and dissemination activities.

Article 6

Copernicus space component

1. The Copernicus space component shall provide spaceborne observations, serving primarily the services referred to in Article 5(1).

2. The Copernicus space component shall consist of dedicated missions and contributing mission data, and include the following activities:
- (a) provision of spaceborne observations, including:
 - (i) completion, maintenance and operation of dedicated missions, including tasking of the satellites, monitoring and control of the satellites, reception, processing, archiving and dissemination of data, permanent calibration and validation;
 - (ii) provision of in situ data for calibration and validation of dedicated mission observations;
 - (iii) provision, archiving and dissemination of contributing mission data complementing dedicated mission data;
 - (b) activities in response to evolving needs of the users, including:
 - (i) identification of observation gaps and-specification of new dedicated missions on the basis of user requirements;
 - (ii) developments aiming at modernising and complementing the dedicated missions, including design and procurement of new elements of the related space infrastructure;

- (c) protection of satellites against the risk of collision taking into account the Union space surveillance and tracking support framework;
- (d) safe decommissioning of the satellites at the end of life.

Article 7

Copernicus in situ component

1. The Copernicus in situ component shall provide access to in situ data, serving primarily the Copernicus services referred to in Article 5(1).

It shall include the following activities:

- (a) provision of in situ data to the operational services, including third party in situ data at international level, based on existing capacities;
- (b) coordination and harmonisation of the collection and provision of in situ data;
- (c) technical assistance to the Commission on the service requirements for in situ observation data;
- (d) cooperation with in situ operators to promote the consistency of development activities related to the in situ observation infrastructure and networks;

- (e) identification of gaps in the in situ observations that cannot be filled by existing infrastructure and networks, including at global level, and addressing those gaps, while respecting the principle of subsidiarity.
2. The in situ data shall be used in Copernicus in accordance with applicable third party rights, including those of Member States, and applicable restrictions on use or re-distribution.
 3. In accordance with point (c) of Article 58(1) of the Financial Regulation, the Commission may entrust, in part or in full, the activities of the in situ component to the service operators referred to in Article 11(1) of this Regulation or, when overall coordination is required, to the European Environment Agency.

Article 8

Financial envelope

1. The financial envelope for the implementation of the activities referred to in Articles 5, 6 and 7 is set at EUR 4 291,48 million in current prices for the period from 1 January 2014 to 31 December 2020.
2. The amount referred to in paragraph 1 shall be broken down in the following categories of expenditure in current prices:
 - (a) for the activities referred to in Articles 5 and 7, EUR 897,415 million;

- (b) for the activities referred to in Article 6, EUR3 394,065 million, including a maximum amount of EUR 26,5 million for the activities referred to in point (c) of Article 6(2).
3. The Commission may re-allocate funds from one category of expenditure, as laid down in points (a) and (b) of paragraph 2, to another, up to a ceiling of 10 % of the amount referred to in paragraph 1. Where the re-allocation reaches a cumulative amount greater than 10 % of the amount referred to in paragraph 1, the Commission shall consult the Copernicus Committee, in accordance with the advisory procedure referred to in Article 30(3).
 4. The interest generated by pre-financing payments made to entities responsible for implementing the budget indirectly shall be assigned to activities subject to the delegation agreement or the contract concluded between the Commission and the entity concerned. In accordance with the principle of sound financial management, the entities responsible for indirect implementation of the budget shall open accounts enabling the funds and corresponding interest to be identified.
 5. The annual appropriations shall be authorised by the European Parliament and the Council within the limits of the multi-annual financial framework. Budgetary commitments for activities extending over more than one financial year may be broken down over several years into annual instalments.

6. The financial allocation for Copernicus may also cover expenses relating to preparatory, monitoring, control, audit and evaluation activities which are required directly for the management of Copernicus and the achievement of its objectives, including studies, meetings, information and communication actions, as well as expenses linked to IT networks focusing on information processing and exchange of data.
7. The Commission may entrust the implementation of Copernicus to the entities referred to in point (c) of Article 58(1) of the Financial Regulation. Where the Copernicus budget is implemented by indirect management on the basis of Article 10(3) or 11(1), the procurement rules of the entities entrusted with budget implementation tasks shall apply to the extent allowable under Article 60 of the Financial Regulation. Specific adjustments necessary to those rules, as well as the arrangements for the prolongation of the existing contracts, shall be defined in the corresponding delegation agreements.

CHAPTER II

GOVERNANCE OF COPERNICUS

Article 9

Role of the Commission

1. The Commission shall have overall responsibility for Copernicus and for the coordination among its different components. It shall manage the funds allocated under this Regulation and oversee the implementation of Copernicus including the setting of priorities, user involvement, cost, schedule, performance and procurement.

2. The Commission shall manage, on behalf of the Union and in its field of competence, relationships with third countries and international organisations, ensuring the coordination of Copernicus with activities at national, Union and international levels.
3. The Commission shall facilitate coordinated contributions of Member States aiming at the operational delivery of services and the long-term availability of necessary observation data.
4. The Commission shall support the appropriate development of Copernicus services and ensure the complementarity, consistency and links between Copernicus and other relevant Union policies, instruments, programmes and actions in order to ensure that those policies, instruments, programmes and actions benefit from Copernicus services.
5. The Commission shall promote a long-term stable investment environment and consult stakeholders when deciding to change products of both Copernicus data and Copernicus information services covered by this Regulation.
6. The Commission shall ensure that any entities entrusted with implementation tasks shall provide their services to all Member States.
7. The Commission shall adopt delegated acts in accordance with Article 31 concerning the establishment of the data requirements for the evolution of the Copernicus service component referred to in Article 5(1).

8. The Commission shall adopt implementing acts, in accordance with the examination procedure referred to in Article 30(4) concerning:
 - (a) the technical specifications for the Copernicus service component referred to in Article 5(1), regarding its implementation;
 - (b) the technical specifications for the Copernicus space component referred to in Article 6, regarding its implementation and evolution on the basis of user requirements.

9. The Commission shall provide to the Member States and the European Parliament, in a timely manner, all relevant information pertaining to Copernicus, in particular in terms of risk management, overall cost, annual operating costs of each significant item of Copernicus infrastructure, schedule, performance, procurement and the assessment of the management of intellectual property rights.

Article 10

The role of European Space Agency

1. The Commission shall conclude a delegation agreement with ESA entrusting it with the following tasks:
 - (a) ensuring the technical coordination of the Copernicus space component;

- (b) defining the overall system architecture for the Copernicus space component and its evolution on the basis of user requirements, coordinated by the Commission;
 - (c) managing the funds allocated;
 - (d) ensuring monitoring and control procedures.
 - (e) developing new dedicated missions;
 - (f) procuring recurrent dedicated missions;
 - (g) operating the dedicated missions, except those operated by EUMETSAT in accordance with paragraph 2 of this Article;
 - (h) coordinating a scheme for access to contributing mission data by Copernicus services;
 - (i) procuring access rights and negotiating conditions of use of commercial satellite data required by the Copernicus services referred to in Article 5(1).
2. The Commission shall conclude a delegation agreement with EUMETSAT entrusting it with the responsibility to operate dedicated missions and provide access to contributing mission data, pursuant to its mandate and expertise.
3. The delegation agreements with ESA and EUMETSAT shall be concluded on the basis of a delegation decision adopted by the Commission in accordance with point (c) of Article 58(1) of the Financial Regulation.

4. In accordance with Article 60 of the Financial Regulation, ESA and EUMETSAT shall act, wherever appropriate, as contracting authorities with the capacity to take decisions regarding the implementation and coordination of the procurement tasks delegated to them.
5. The delegation agreements shall, insofar as necessary for the tasks and budget implementation delegated, lay down the general conditions for the management of the funds entrusted to ESA and EUMETSAT and shall take into consideration, where appropriate, the ESA Long-Term Scenario (LTS). In particular, they shall lay down the actions to be implemented as regards the development, procurement and operation of the Copernicus space component, the relevant financing, management procedures and monitoring and control measures, the measures applicable in the event of inadequate implementation of contracts in terms of costs, schedule, performance and procurement, as well as the rules regarding ownership of all tangible and intangible assets.
6. The monitoring and control measures shall, in particular, provide for a provisional cost forecast system, for systematic information to the Commission on costs and schedule, and, in the event of a discrepancy between the planned budgets, performance and schedule, for corrective action ensuring the implementation of the activities within the limits of the budgets allocated.

7. The Copernicus Committee shall be consulted on the delegation decision referred to in paragraph 3 of this Article, in accordance with the advisory procedure referred to in Article 30(3). The Copernicus Committee shall be informed in advance of the delegation agreements to be concluded by the Union, represented by the Commission, with ESA and EUMETSAT.
8. The Commission shall inform the Copernicus Committee of the results of the evaluation of the procurement tenders and of the contracts with private sector entities to be concluded by ESA and EUMETSAT, including the information relating to subcontracting.

Article 11

Service Operators

1. The Commission may entrust the service component implementation tasks, by means of delegation agreements or contractual arrangements, where duly justified by the special nature of the action and existing specific expertise, mandate, operation and management capacity, inter alia to the following entities:
 - (a) the European Environment Agency (EEA);
 - (b) the European Agency for the Management of Operational Cooperation at the External Borders of the Member States of the European Union (FRONTEX);
 - (c) the European Maritime Safety Agency (EMSA);
 - (d) the European Union Satellite Centre (SATCEN);

- (e) the European Centre for Medium Range Weather Forecasts (ECMWF);
- (f) other relevant European agencies, groupings or consortia of national bodies.

The delegation agreements with the service operators shall be concluded on the basis of a delegation decision adopted by the Commission in accordance with point (c) of Article 58(1) of the Financial Regulation.

2. The choice of the entities referred to in paragraph 1 shall take due account of the cost efficiency of entrusting those tasks and the impact on the entities governance structure and on their financial and human resources.
3. The Copernicus Committee shall be consulted on the delegation decision referred to in paragraph 1 of this Article in accordance with the advisory procedure referred to in Article 30(3). The Copernicus Committee shall be informed in advance of the delegation agreements to be concluded by the Union, represented by the Commission, and the service operators.

Article 12

Work programme of the Commission

1. The Commission shall by means of an implementing act adopt an annual work programme for Copernicus pursuant to Article 84 of the Financial Regulation.

2. The annual work programme shall include an implementation plan, which shall detail actions pertaining to the Copernicus components referred to in Articles 5, 6 and 7, and shall be forward-looking, taking into account evolving user needs and technological developments.
3. That implementing act shall be adopted in accordance with the examination procedure referred to in Article 30(4) of this Regulation.

Article 13

Cooperation with Member States

1. The Commission shall cooperate with Member States in order to improve the exchange of data and information between them and foster the development of data distribution at regional and local levels. The Commission shall aim to ensure that the required data and information are available to Copernicus. The Member States' contributing missions, service and in situ infrastructures are essential contributions to Copernicus.
2. The Commission may adopt, by means of implementing acts, measures to promote the use of Copernicus data and Copernicus information by Member States and support their access to the technology and development in Earth Observation. Such measures shall not have the effect of distorting free competition. Those implementing acts shall be adopted in accordance with the examination procedure referred to in Article 30(4).

CHAPTER III

PUBLIC PROCUREMENT

SECTION I

GENERAL PROVISIONS APPLICABLE TO PUBLIC PROCUREMENT

Article 14

General principles

Without prejudice to Article 8(7) and measures required to protect the essential interests of the security of the Union or public security or to comply with Union export control requirements, the Financial Regulation, and in particular 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, shall apply to Copernicus.

Article 15
Specific objectives

During the procurement procedure, the following objectives shall be pursued by the contracting authorities in their calls for tender:

- (a) to promote the widest and most open participation possible throughout the Union by all economic operators, in particular by new entrants and SMEs, including through encouraging the recourse to sub-contracting by the tenderers;
- (b) to avoid possible abuse of dominant position and reliance on a single supplier;
- (c) to take advantage of prior public sector investments and lessons learned as well as industrial experience and competences, while ensuring that competitive tendering rules are complied with;
- (d) to pursue multiple sourcing wherever appropriate in order to ensure better overall control of Copernicus, its costs and schedule;
- (e) to take into account wherever appropriate the total cost over the useful life-cycle of the product, service or work being tendered.

SECTION II

SPECIFIC PROVISIONS APPLICABLE TO PUBLIC PROCUREMENT

Article 16

Establishing fair competition conditions

The contracting authority shall take the appropriate measures to ensure fair competition conditions when previous involvement of an economic operator in activities associated with the subject of the call for tender:

- (a) may confer significant advantages on that economic operator in terms of privileged information and therefore may give rise to concerns as to compliance with equal treatment;
or
- (b) affect normal competition conditions or the impartiality and objectivity of the award or performance of the contracts.

These measures shall not distort competition, or jeopardise equal treatment or the confidentiality of data collected about undertakings, their business relations and cost structure. In that context, those measures shall take into account the nature and particulars of the intended contract.

Article 17

Security of information

When contracts involve, require and/or contain classified information, the contracting authority shall specify in the tender documents the measures and requirements necessary to ensure the security of such information at the requisite level.

Article 18
Reliability of supply

The contracting authority shall specify in the tender documents its requirements in relation to the reliability of supplies and of the provision of services for the execution of the contract.

Article 19
Conditional stage-payment contract

1. The contracting authority may award a contract in the form of a conditional stage-payment contract.
2. A conditional stage-payment contract shall include a fixed stage which is accompanied by a budgetary commitment which results in a firm commitment to provide the works, supplies or services contracted for that stage and one or more stages which are conditional in terms of both budget and execution. The tender documents shall refer to the specific features of conditional stage-payment contracts. In particular, they shall specify the subject-matter of the contract, the price or the arrangements for determining the price and the arrangements for the provision of works, supplies and services at each stage.
3. The fixed stage obligations shall be part of a consistent whole; the same shall be true for the obligations under each conditional stage, taking into account the obligations under the previous stages.

4. Performance of each conditional stage shall be subject to a decision by the contracting authority, notified to the contractor in accordance with the contract. When a conditional stage is confirmed late or is not confirmed, the contractor may benefit, if the contract so provides and under the conditions laid down therein, from a tide-over allowance or a non-execution allowance.
5. Where, with regard to a particular stage, the contracting authority finds that works, supplies, or services agreed for that stage have not been completed, it may claim damages and terminate the contract, if the contract so provides and under the conditions laid down therein.

Article 20

Cost-reimbursement contracts

1. The contracting authority may opt for a full or partial cost-reimbursement contract up to a ceiling price, under the conditions laid down in paragraph 2.

The price to be paid for such contracts shall consist of reimbursement of all direct costs incurred by the contractor in performing the contract, such as expenditure on labour, materials, consumables, and use of the equipment and infrastructures necessary to perform the contract. These costs shall be increased by a fixed fee covering indirect costs and the profit, or a sum covering indirect costs and incentive fee compensation based on achieving objectives in respect of performance and delivery schedules.

2. The contracting authority may opt for a full or partial cost-reimbursement contract when it is objectively impossible to specify an accurate fixed price and if it can be reasonably shown that such a fixed price would be abnormally high due to the uncertainties inherent in performance of the contract because:
 - (a) the contract has very complex features or features which require the use of a new technology and, therefore, includes a significant number of technical risks; or
 - (b) the activities subject to the contract must, for operational reasons, start immediately even though it is not yet possible to determine a firm fixed price in full due to significant risks or because the performance of the contract depends in part on the performance of other contracts.
3. The ceiling price for a full or partial cost-reimbursement contract shall be the maximum price payable. It may only be exceeded in duly justified exceptional circumstances subject to prior agreement by the contracting authority.
4. The tender documents of a procurement procedure for a full or partial cost-reimbursement contract shall specify:
 - (a) the type of contract, namely whether it is a full or partial cost-reimbursement contract up to a ceiling price;
 - (b) for a partial cost-reimbursement contract, the elements of the contract subject to cost-reimbursement;

- (c) the total ceiling price;
 - (d) the award criteria, which must enable evaluation of the plausibility of the estimated overall budget, the reimbursable costs, the mechanisms for determining these costs, and the profit referred to in the tender to be evaluated;
 - (e) the mechanics of the increase referred to in paragraph 1 to be applied to direct costs;
 - (f) the rules and procedures which determine the eligibility of the costs planned by the tenderer for the performance of the contract, in accordance with the principles set out in paragraph 5;
 - (g) the accounting rules with which tenderers must comply;
 - (h) in the case of a partial cost-reimbursement contract to be converted into a firm fixed-price contract, the parameters for such conversion.
5. The costs declared by the contractor during the performance of a full or partial cost-reimbursement contract shall only be eligible if they:
- (a) are actually incurred in the course of the contract, with the exception of costs for equipment, infrastructures and intangible fixed assets necessary for performance of the contract which may be deemed eligible for the whole of their purchase value;
 - (b) are referred to in the estimated overall budget which may be revised by amendments to the initial contract;

- (c) are necessary for the performance of the contract;
- (d) result from and are attributable to the performance of the contract;
- (e) are identifiable, verifiable, recorded in the contractor's accounting record and determined in accordance with the accounting standards referred to in the specifications and in the contract;
- (f) comply with the requirements of applicable tax and social law;
- (g) do not derogate from the terms of the contract;
- (h) are reasonable, justified, and comply with the requirements of sound financial management, in particular regarding economy and efficiency.

The contractor shall be responsible for its own cost accounting, and for keeping sound accounting records or any other document required to show that the costs for which reimbursement is requested have been incurred and comply with the principles set out in this Article. Costs which cannot be substantiated by the contractor shall be deemed ineligible and their reimbursement shall be refused.

6. The contracting authority shall be responsible for the following tasks in order to ensure correct performance of cost-reimbursement contracts:
- (a) determining the most realistic possible ceiling price, while providing the necessary flexibility to account for technical difficulties;

- (b) converting a partial cost-reimbursement contract into a full firm fixed-price contract as soon as it is possible to determine such a firm fixed-price during performance of the contract. For this reason, it shall determine the conversion parameters to convert a contract concluded on a cost-reimbursement basis to a firm fixed-price contract;
- (c) implementing monitoring and control measures which provide, in particular, an estimated cost forecast system;
- (d) determining suitable principles, tools and procedures for the implementation of contracts, in particular for identifying and checking the eligibility of costs declared by the contractor or its subcontractors during the performance of the contract, and for entering amendments to the contract;
- (e) checking that the contractor and its subcontractors comply with the accounting standards stipulated in the contract and with the obligation to provide their accounting documents which should present a true and fair view of the accounts;
- (f) throughout performance of the contract, continuously ensuring the effectiveness of the principles, tools and procedures referred to in point (d).

Article 21
Amendments

The contracting authority and the contractors may change the contract by an amendment on condition that this amendment fulfills all of the following conditions:

- (a) it does not alter the subject-matter of the contract;
- (b) it does not disturb the economic balance of the contract;
- (c) it does not introduce conditions which, if they had appeared initially in the contract documents, would have allowed for the admission of tenderers other than those initially admitted or would have allowed for the acceptance of a tender other than the one initially accepted.

Article 22
Subcontracting

1. The contracting authority shall request the tenderer to subcontract a share of the contract by competitive tendering at the appropriate levels of sub-contracting to companies other than those that belong to the tenderer's group in particular to new entrants and SMEs.

2. The contracting authority shall express the requisite share of the contract to be sub-contracted in the form of a range from a minimum to a maximum percentage. It shall ensure that such percentages are proportionate to the objective and value of the contract, taking into account the nature of the sector of activity concerned, and in particular, the competitive conditions and industrial potential observed.
3. If the tenderer indicates in its tender that it intends not to sub-contract any share of the contract or to subcontract a share inferior to the minimum of the range referred to in paragraph 2, it shall provide the reasons therefor to the contracting authority. The contracting authority shall submit that information to the Commission.
4. The contracting authority may reject subcontractors selected by the candidate at the stage of the main contract award procedure or by the tenderer selected for the performance of the contract. It shall justify this rejection in writing, which may be based only on the criteria used for selection of tenderers for the main contract.

CHAPTER IV

DATA AND SECURITY POLICY

Article 23

Copernicus data and Copernicus information policy

1. The Copernicus data and Copernicus information policy for actions financed under Copernicus shall support the objectives referred to in Article 4 and the following objectives:
 - (a) promoting the use and sharing of Copernicus data and Copernicus information;
 - (b) strengthening European Earth observation markets, in particular the downstream sector, with a view to enabling growth and job creation;
 - (c) contributing to the sustainability and continuity of the provision of Copernicus data and Copernicus information;
 - (d) supporting the European research, technology and innovation communities.

2. Dedicated mission data and Copernicus information shall be made available through Copernicus dissemination platforms, under pre-defined technical conditions, on a full, open and free-of-charge basis, subject to the following limitations:
 - (a) licensing conditions for third party data and information;
 - (b) formats, characteristics and dissemination means;
 - (c) security interests and external relations of the Union or its Member States;
 - (d) risk of disruption, for safety or technical reasons, of the system producing Copernicus data and Copernicus information;
 - (e) ensuring reliable access to Copernicus data and Copernicus information for European users.

Article 24

Conditions and limitations of Copernicus data and Copernicus information access and use

1. The Commission, respecting third party data and information policies and without prejudice to rules and procedures applicable to space and in situ infrastructure under national control or under control of international organisations, may adopt delegated acts in accordance with Article 31, concerning:
 - (a) the conditions and procedures as regards access to, registration and use of Copernicus data and Copernicus information, including the dissemination means;

- (b) the specific technical criteria necessary to prevent the disruption of Copernicus data and Copernicus information, including priority of access;
 - (c) the criteria and procedures for the restriction of acquisition or dissemination of Copernicus data and Copernicus information due to conflicting rights.
2. The Commission, respecting third party data and information policies and without prejudice to rules and procedures applicable to space and in situ infrastructure under national control or under control of international organisations, may adopt measures in accordance with the examination procedure referred to in Article 30(4), concerning:
- (a) the technical specifications for the transmission and use of dedicated mission data transmitted to receiving stations or via dedicated high bandwidth connections to stations not part of Copernicus;
 - (b) the technical specifications for the archiving of Copernicus data and Copernicus information.
3. The Commission shall establish the relevant licensing conditions and procedures for dedicated missions data and Copernicus information, and the transmission of satellite data to receiving stations or via dedicated high bandwidth connections to stations not part of Copernicus in compliance with this Regulation and applicable third-party rights.

Article 25

Protection of security interests

1. The Commission shall evaluate the security framework of Copernicus, taking into account the objectives referred to in Article 4. To that end, the Commission shall assess the necessary security measures which shall be designed to avoid any risks or threats for the interest or security of the Union or its Member States, in particular to ensure compliance with the principles set out in Decision 2001/844/EC and Decision 2013/488/EU.
2. On the basis of the evaluation referred to in paragraph 1, the Commission shall by means of implementing acts establish the necessary security-related technical specifications for Copernicus. Those implementing acts shall be adopted in accordance with the examination procedure referred to in Article 30(4).
3. The Commission may be assisted by independent experts from Member States in order to define the technical specifications of the security framework referred to in paragraph 2.
4. Notwithstanding paragraph 2, the Council shall adopt the measures to be taken whenever the security of the Union or its Member States could be affected by data and information provided by Copernicus.
5. Where EU classified information is generated or handled within Copernicus, all participants shall ensure a degree of protection equivalent to that provided by the rules set out in the Annex to Decision 2001/844/EC and in the Annexes to Decision 2013/488/EU.

CHAPTER V

MISCELLANEOUS

Article 26

International cooperation

1. The following countries or international organisations may participate in Copernicus, on the basis of appropriate agreements:
 - (a) European Free Trade Association (EFTA) countries which are Contracting Parties to the EEA Agreement in accordance with the conditions laid down in the EEA Agreement;
 - (b) candidate countries, as well as potential candidates in accordance with the respective Framework Agreements or a Protocol to an Association Agreement establishing the general principles and conditions for the participation of those countries in Union programmes;
 - (c) the Swiss Confederation, other third countries not referred to in points (a) and (b) and international organisations, in accordance with agreements concluded by the Union with such third countries or international organisations pursuant to Article 218 TFEU, laying down the conditions and detailed rules for their involvement.

2. The countries or international organisations referred to in paragraph 1 may provide financial support or contributions in kind to Copernicus. That financial support and those contributions shall be treated as external assigned revenue, in accordance with Article 21(2) of the Financial Regulation, and shall be admissible under the terms and conditions of the agreement concluded with the respective third country or international organisation.
3. The international coordination of observation systems and related exchanges of data may be addressed by Copernicus, in order to strengthen its global dimension and complementarity taking account of existing international agreements and coordination processes.

Article 27

Protection of the financial interests of the Union

1. The Commission shall take the appropriate measures to ensure that the financial interests of the Union are protected, when actions financed under Copernicus are implemented, by the application of preventive measures against fraud, corruption and any other illegal activities, by effective checks and, if irregularities are detected, by the recovery of the amounts wrongly paid and, where appropriate, by effective, proportionate and dissuasive administrative and financial penalties.

2. The Commission or its representatives and the Court of Auditors shall have the power of audit, on the basis of documents and on the spot, over all grant beneficiaries, contractors and subcontractors who have received Union funds under Copernicus.
3. The European Anti-Fraud Office (OLAF) may carry out investigations, including on-the-spot checks and inspections, in accordance with the provisions and procedures laid down in Regulation (EU, Euratom) No 883/2013 of the European Parliament and of the Council¹ and Council Regulation (Euratom, EC) No 2185/96² with a view to establishing whether there has been fraud, corruption or any other illegal activity affecting the financial interests of the Union in connection with a grant agreement or grant decision, or a contract funded under Copernicus.
4. Without prejudice to paragraphs 1, 2 and 3, cooperation agreements with third countries and with international organisations, contracts, grant agreements and grant decisions, resulting from the implementation of Copernicus shall contain provisions expressly empowering the Commission, the Court of Auditors and OLAF to conduct such audits and investigations, according to their respective competences.

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

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

Article 28
Ownership

1. The Union shall be the owner of all tangible and intangible assets created or developed under Copernicus. To that effect, agreements shall be concluded with third parties, wherever appropriate, with regard to existing ownership rights.
2. The terms and conditions relating to the transfer of ownership to the Union shall be laid down in the agreements referred to in paragraph 1.
3. The Commission shall ensure, through an appropriate framework, the optimal use of the assets referred to in this Article; in particular, it shall manage the intellectual property rights relating to Copernicus as effectively as possible, taking into account the need to protect and give value to the Union's intellectual property rights, the interests of all stakeholders, and the necessity of harmonious development of the markets and of new technologies and the continuity of services. To that end, it shall ensure that the contracts entered into, under Copernicus, include the possibility of transferring or licensing intellectual property rights arising from work performed under Copernicus.

Article 29
Assistance to the Commission

The Commission may be assisted by independent experts, from different areas, related to the scope of Copernicus, from a broad constituency of stakeholders, including representatives of Copernicus users and national entities responsible for space, to provide it with the necessary technical and scientific expertise, as well as inter-disciplinary and cross-sectoral perspectives, taking account of relevant existing initiatives at Union, national and regional levels.

Article 30
Committee procedure

1. The Commission shall be assisted by a committee (the Copernicus Committee). That committee shall be a committee within the meaning of Regulation (EU) No 182/2011.

The Copernicus Committee shall meet in specific configurations in particular with regard to security aspects ('Security Board').

2. The Copernicus Committee shall set up the 'User Forum', as a working group to advise the Copernicus Committee on user requirements aspects, in accordance with its rules of procedure.
3. Where reference is made to this paragraph, Article 4 of Regulation (EU) No 182/2011 shall apply.

4. Where reference is made to this paragraph, Article 5 of Regulation (EU) No 182/2011 shall apply.
5. Representatives of the entities to whom tasks of Copernicus are entrusted shall be involved, where appropriate, as observers in the work of the Copernicus Committee under the conditions laid down in its rules of procedure.
6. The agreements concluded by the Union in accordance with Article 26 may provide for the involvement, as appropriate, of representatives of third countries or international organisations in the work of the Copernicus Committee under the conditions laid down in its rules of procedure.
7. The Copernicus Committee shall meet regularly, preferably on a quarterly basis. The Commission shall provide a report on Copernicus progress at each meeting. Those reports shall give a general overview of Copernicus status and developments, in particular in terms of risk management, costs, schedule, performance, procurement, and relevant advice provided to the Commission.

Article 31

Exercise of the delegation

1. The power to adopt delegated acts is conferred on the Commission subject to the conditions laid down in this Article.

2. The power to adopt delegated acts referred to in Article 9(7) and Article 24(1) shall be conferred on the Commission for the duration of Copernicus.
3. The delegation of power referred to in Article 9(7) and Article 24(1) may be revoked at any time by the European Parliament or by the Council. A decision to revoke shall put an end to the delegation of the power specified in that decision. It shall take effect the day following the publication of the decision in the *Official Journal of the European Union* or at a later date specified therein. It shall not affect the validity of any delegated acts already in force.
4. As soon as it adopts a delegated act, the Commission shall notify it simultaneously to the European Parliament and to the Council.
5. A delegated act adopted pursuant to Article 9(7) and Article 24(1) shall enter into force only if no objection has been expressed either by the European Parliament or by the Council within a period of two months of notification of that act to the European Parliament and the Council or if, before the expiry of that period, the European Parliament and the Council have both informed the Commission that they will not object. That period shall be extended by two months at the initiative of the European Parliament or of the Council.

Article 32
Evaluation

1. By 31 December 2017, after consultation with relevant stakeholders, an evaluation report shall be established by the Commission on the achievement of the objectives of all the tasks financed by Copernicus-at the level of their results and impacts, their European added value and on the efficiency of the use of resources. The evaluation shall address the continued relevance of all objectives, as well as the contribution of the measures to the objectives described in Article 4, the performance of the organisational structure and the scope of services deployed. The evaluation shall include an assessment of a possible involvement of relevant European agencies (including the European GNSS Agency) and if appropriate be accompanied by relevant legislative proposals.

In particular, the evaluation shall assess the impacts of the Copernicus data and Copernicus information policy, on stakeholders, downstream users, the influence on business as well as on national and private investments in Earth observation infrastructures.

2. The Commission shall carry out the evaluation referred to in paragraph 1, in close cooperation with the operators and-the Copernicus users, and shall examine the effectiveness and efficiency of Copernicus-and its contribution to the objectives referred to in Article 4. The Commission shall communicate the result of these evaluations to the European Parliament, the Council, the European Economic and Social Committee and the Committee of the Regions and shall, if necessary, propose appropriate measures.

3. The Commission may, whenever necessary, be assisted by independent entities, undertake an evaluation of the methods of carrying out projects as well as the impact of their implementation, in order to assess whether the objectives, including those relating to environmental protection, have been attained.
4. The Commission may request a Member State to provide a specific evaluation of the actions and the linked projects financed under this Regulation or, where appropriate, to supply it with the information and assistance required to undertake an evaluation of such projects.

Article 33

Repeal

1. Regulation (EU) No 911/2010 is repealed.
2. Any measure adopted on the basis of Regulation (EU) No 911/2010 shall remain valid.
3. References to the repealed Regulation (EU) No 911/2010 shall be construed as references to this Regulation and shall be read in accordance with the correlation table in the Annex.

Article 34
Entry into force

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

It shall apply from 1 January 2014.

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

Done at Brussels,

For the European Parliament
The President

For the Council
The President

ANNEX

Correlation table referred to in Article 33

Regulation (EU) No 911/2010	This Regulation
Article 1	Article 1
Article 2	Articles 2, 5, 6 and 7
Article 3	–
Article 4	Articles 4, 9, 10, 11, 13 and 26
Article 5	Articles 5, 9, 11 and 13
Article 6	Articles 14 to 22
Article 7	Articles 9 and 26
Article 8	Article 8
Article 9	Articles 23, 24 and 25
Article 10	Articles 24 and 31
Article 11	Article 31
Article 12	Article 31
Article 13	Articles 23, 24 and 25
Article 14	Articles 4 and 32
Article 15	Articles 9 and 12
Article 16	Article 30
Article 17	Article 30
Article 18	Article 27
Article 19	Article 34
Annex	Article 4