

| Basic information                                       |                     |
|---------------------------------------------------------|---------------------|
| <b>2016/2325(INI)</b><br>INI - Own-initiative procedure | Procedure completed |
| Space strategy for Europe                               |                     |
| <b>Subject</b><br>3.50.03 European space policy         |                     |

| Key players         |                                                         |  |                                                                                                                                                                                                                                |
|---------------------|---------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| European Parliament | Committee responsible                                   |  | Rapporteur                                                                                                                                                                                                                     |
|                     | <div>ITRE</div> Industry, Research and Energy           |  | KREHL Constanze (S&D)                                                                                                                                                                                                          |
|                     |                                                         |  | Shadow rapporteur<br>GROSSETÊTE Françoise (PPE)<br>TOŠENOVSKÝ Evžen (ECR)<br>VAN NIEUWENHUIZEN Cora (ALDE)<br>KOHLÍČEK Jaromír (GUE/NGL)<br>REIMON Michel (Verts/ALE)<br>PAKSAS Rolandas (EFDD)<br>SCHAFFHAUSER Jean-Luc (ENF) |
|                     | Committee for opinion                                   |  | Rapporteur for opinion                                                                                                                                                                                                         |
|                     | <div>AFET</div> Foreign Affairs                         |  | VAN ORDEN Geoffrey (ECR)                                                                                                                                                                                                       |
|                     | <div>IMCO</div> Internal Market and Consumer Protection |  | GEBHARDT Evelyne (S&D)                                                                                                                                                                                                         |
|                     | <div>TRAN</div> Transport and Tourism                   |  | MEISSNER Gesine (ALDE)                                                                                                                                                                                                         |
|                     | <div>PECH</div> Fisheries                               |  | SERRÃO SANTOS Ricardo (S&D)                                                                                                                                                                                                    |
|                     |                                                         |  |                                                                                                                                                                                                                                |
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|-------------------------------|-----------------------------------------------------------------|---------------------|-------------|
| Council of the European Union | <b>Council configuration</b>                                    | <b>Meetings</b>     | <b>Date</b> |
|                               | Competitiveness (Internal Market, Industry, Research and Space) | 3544                | 2017-05-30  |
| European Commission           | <b>Commission DG</b>                                            | <b>Commissioner</b> |             |
|                               | Internal Market, Industry, Entrepreneurship and SMEs            | BIENKOWSKA Elzbieta |             |

| Key events |                                            |                                                                                                      |         |
|------------|--------------------------------------------|------------------------------------------------------------------------------------------------------|---------|
| Date       | Event                                      | Reference                                                                                            | Summary |
| 26/10/2016 | Non-legislative basic document published   | COM(2016)0705<br> | Summary |
| 19/01/2017 | Committee referral announced in Parliament |                                                                                                      |         |
| 30/05/2017 | Debate in Council                          |                                                                                                      |         |
| 21/06/2017 | Vote in committee                          |                                                                                                      |         |
| 05/07/2017 | Committee report tabled for plenary        | A8-0250/2017                                                                                         | Summary |
| 11/09/2017 | Debate in Parliament                       |                   |         |
| 12/09/2017 | Decision by Parliament                     | T8-0323/2017                                                                                         | Summary |
| 12/09/2017 | Results of vote in Parliament              |                 |         |
| 12/09/2017 | End of procedure in Parliament             |                                                                                                      |         |

| Technical information             |                                |
|-----------------------------------|--------------------------------|
| <b>Procedure reference</b>        | 2016/2325(INI)                 |
| <b>Procedure type</b>             | INI - Own-initiative procedure |
| <b>Procedure subtype</b>          | Initiative                     |
| <b>Legal basis</b>                | Rules of Procedure EP 55       |
| <b>Other legal basis</b>          | Rules of Procedure EP 165      |
| <b>Stage reached in procedure</b> | Procedure completed            |
| <b>Committee dossier</b>          | ITRE/8/08785                   |

| Documentation gateway      |                 |           |            |         |
|----------------------------|-----------------|-----------|------------|---------|
| <b>European Parliament</b> |                 |           |            |         |
| Document type              | Committee       | Reference | Date       | Summary |
| Committee draft report     |                 | PE602.728 | 04/04/2017 |         |
| Committee opinion          | <div>PECH</div> | PE599.804 | 27/04/2017 |         |
|                            |                 |           |            |         |

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|-----------------------------------------------------|----------------------------------------------------------------------------------------------------|---------------|------------|---------|
| Amendments tabled in committee                      |                                                                                                    | PE602.729     | 27/04/2017 |         |
| Committee opinion                                   | AFET                                                                                               | PE601.237     | 31/05/2017 |         |
| Committee opinion                                   | TRAN                                                                                               | PE601.249     | 02/06/2017 |         |
| Committee opinion                                   | IMCO                                                                                               | PE602.751     | 09/06/2017 |         |
| Committee report tabled for plenary, single reading |                                                                                                    | A8-0250/2017  | 05/07/2017 | Summary |
| Text adopted by Parliament, single reading          |                                                                                                    | T8-0323/2017  | 12/09/2017 | Summary |
| European Commission                                 |                                                                                                    |               |            |         |
| Document type                                       | Reference                                                                                          |               | Date       | Summary |
| Commission document (COM)                           | COM(2016)0705<br> |               | 26/10/2016 | Summary |
| Commission response to text adopted in plenary      | SP(2017)780                                                                                        |               | 21/02/2018 |         |
| National parliaments                                |                                                                                                    |               |            |         |
| Document type                                       | Parliament /Chamber                                                                                | Reference     | Date       | Summary |
| Contribution                                        | IT_CHAMBER                                                                                         | COM(2016)0705 | 16/02/2017 |         |
| Contribution                                        | CZ_SENATE                                                                                          | COM(2016)0705 | 14/03/2017 |         |
| Contribution                                        | PT_PARLIAMENT                                                                                      | COM(2016)0705 | 15/09/2017 |         |

## Space strategy for Europe

2016/2325(INI) - 26/10/2016 - Non-legislative basic document

PURPOSE: to present a new space strategy for Europe.

BACKGROUND: Europe owns world class space systems with Copernicus for Earth observation, EGNOS and Galileo for satellite navigation and geo-positioning.

With **18 satellites** currently in orbit and over 30 planned in the next 10-15 years, the EU is the largest institutional customer for launch services in Europe.

The European space economy, including manufacturing and services, employs over 230 000 professionals and its value was estimated at EUR 46-54 billion in 2014, representing around 21% of the value of the global space sector. Between 2014 and 2020, the EU alone will invest over **EUR 12 billion** in space activities.

Space technologies, data and services have become indispensable in the daily lives of European citizens: when using mobile phones and car navigation systems, watching satellite TV or withdrawing cash. Satellites provide immediate information when disasters, such as earthquakes, forest fires or floods strike, allowing emergency and rescue teams to better coordinate their efforts. Agriculture benefits from improved land use. Transportation and energy infrastructure is safer and can be more efficiently managed thanks to satellite technologies. Global challenges due to growing populations, increased demand for resources and climate change require information about our planet which space based solution can provide more easily.

In a fast-changing international space context, Europe must work together to **promote its position as a leader in space**, increase its share on the world space markets, and seize the benefits and opportunities offered by space.

CONTENT: building on Article 189 of the Treaty (TFEU), the Commission is proposing a **new space strategy** for Europe focused on four strategic goals:

**1) Maximising the benefits of space for society and the EU economy:** it is necessary to boost demand among public and private users, facilitating access to and use of space data, and stimulating the development and use of innovative downstream applications but also ensuring the continuity and user-driven development of EU space programmes.

The Commission will:

- **encourage the use of space services, data and applications in EU policies** whenever they provide effective solutions (from environmental protection to transport safety, precision farming, control of fishery stocks, monitoring of shipping routes and detection of oil spills, to urban and regional planning);
- take concrete measures, including regulatory ones where justified and beneficial, to **introduce Galileo** in specific markets or areas, such as mobile phones, European critical infrastructure and aviation;
- facilitate the use of **Copernicus** data and information by strengthening data dissemination and setting up platform services, promoting interfaces with non-space data and services;
- stimulate the **development of space applications** with a greater involvement of new actors from different domains;
- address emerging needs related, in particular, to climate change/sustainable development and security and defence;
- explore **alternative business models** (public-public, public-private partnerships or buying services) with a view to mobilising funds.

**2) Fostering a globally competitive and innovative European space sector:** the European space industry is facing tougher global competition. Space is now part of a global value chain that increasingly attracts new companies and entrepreneurs. This opens up new opportunities to develop innovative products, services and processes which can benefit industry in all Member States, creating new capacities and adding value in and outside the space sector.

The Commission intends to:

- step up its efforts to support space R&D activities, in cooperation with Member States and ESA, and review its strategic approach to boosting the competitiveness of the European space sector;
- **support space entrepreneurs** through EU funding programmes to facilitate further financing of investments in the space sector;
- support **space start-ups**, including by exploring synergies with the upcoming Fund of Funds, and facilitate the emergence of space hubs and clusters across Europe.

**3) Reinforcing Europe's strategic autonomy:** space is becoming a more contested and challenged environment. Europe needs to ensure its freedom of action and autonomy. It needs to have access to space and be able to use it safely.

The Commission wishes to:

- **aggregate the launch service needs** of EU programmes and act as a smart customer of European reliable and cost-effective launch solutions;
- encourage the **development of commercial markets** for new space activities;
- ensure that European satellite systems and operators have access to **spectrum** that is protected from interference from other system;
- enhance the current **EU space surveillance tracking (SST)** support framework to protect against cyber threats or the impact of space weather on satellites;
- propose a **Govsatcom initiative** (new initiative providing resilient satellite communication services for governmental and institutional security users) to ensure reliable, secured and cost-effective satellite communication services for EU and national public authorities and infrastructure.

**4) Strengthening Europe's role as a global actor:** the Commission will therefore work alongside the High Representative and Member States in promoting international principles of responsible behaviour in outer space in the framework of the United Nations and other appropriate multilateral fora.

The Commission will pursue **space dialogues** with strategic international partners, ensure that space policy is duly taken into account in EU export control dialogues with third countries.

## Space strategy for Europe

2016/2325(INI) - 05/07/2017 - Committee report tabled for plenary, single reading

The Committee on Industry, Research and Energy adopted an own-initiative report drafted by Constanze KREHL (S&D, DE) following the Commission's Communication 'Space Strategy for Europe'.

Members **endorsed the Commission's commitment** to maximise the economic and societal benefits of space, increase the use of space technologies by fostering a competitive and innovative European space sector and strengthening the EU's autonomy, Europe in the space sector and its role as a global player.

**Maximising the benefits of space for society and the economy of the Union:** the report stresses that space programmes and their services are essential assets in economic sectors and sectors such as energy, climate, safety, health, agriculture, transport, the digital market and local planning. There is also a huge potential in addressing challenges such as migration, border management and sustainable development.

The Commission is invited to **accelerate the economic exploitation of the Galileo, EGNOS and Copernicus programmes** by setting adequate targets for market development and by emphasising the benefits for citizens and businesses of satellite navigation and earth observation data and services.

Members called on the Commission to carry out a **systematic space check on compatibility with space programmes** before tabling any new legislative or non-legislative proposals.

The report acknowledged the role of space technologies, and of the two EU flagship space programmes, in making **land, maritime, air and space transport** smarter, safer, more secure and sustainable, and integrated in strategic future sectors such as self-driving and connected cars, and unmanned aerial vehicles.

Members also underlined the important role of the **European Structural and Investment Funds** (ESIF) in stimulating downstream space markets, most importantly through public procurement.

**Fostering a globally competitive and innovative European space sector:** Members called for the enhancement and extension of the **dedicated space budget line** under Framework Programme 9. They called on the Commission to extend the use of the **SME** instrument for scaling-up business opportunities in space-based products and services, both within Horizon 2020 and in future Framework Programmes.

The report called on the Commission, in the context of public procurement, to ensure fair treatment of EU enterprises vis-à-vis enterprises from third countries. It highlighted the importance of **reinforcing the European industrial base**, and of guaranteeing the EU's strategic autonomy, by diversifying sources of supply and making the best use of multiple EU providers.

**Reinforcing Europe's autonomy in accessing space:** while recalling that EU space programmes are of a civil nature, Members are of the opinion that the Commission should analyse **synergies** between European space programmes and the European Defence Action Plan proposed in November 2016 to ensure overall coherence in this strategic field.

The Commission is called upon to:

- aggregate the demand of institutional customers from the European Union and the Member States to ensure an **independent, cost effective and reliable access to space** through the use of the European launchers Ariane, Vega and their future evolutions;
- encourage the development of **alternative launching technologies** and the inclusion of eco-design principles in all launchers and space assets;
- mitigate the risks presented by **space debris** by enhancing current space surveillance and tracking (SST) services;
- mitigate the **risks for EU space assets** by taking adequate measures, including, where appropriate, the use of encryption, for the protection of space-related infrastructure against cyber-threats.

The report stressed the importance of securing critical infrastructure and communications as well as space capabilities in the **fight against terrorism**.

**Strengthening Europe's role as a global actor and promoting international cooperation:** the Commission is called upon to promote EU space assets and space industrial capacity in all relevant aspects of its external relations.

In order to ensure a **peaceful and safe space environment**, Members advocated engaging with international partners to promote norms of responsible behaviour and sustainability, notably in relation to space exploration. They called on the Commission to monitor the existing private sector objectives in the field space mining.

## Space strategy for Europe

2016/2325(INI) - 12/09/2017 - Text adopted by Parliament, single reading

The European Parliament adopted by 606 votes to 66, with 16 abstentions, a resolution following the Commission's Communication 'Space Strategy for Europe'.

Parliament endorsed the **Commission's commitment** to maximise the economic and societal benefits of space, increase the use of space technologies by fostering a competitive and innovative European space sector and strengthening the EU's autonomy, Europe in the space sector and its role as a global player.

**Maximising the benefits of space for society and the economy of the Union:** Parliament stressed that space programmes and their services are essential assets in economic sectors and sectors such as energy, climate, safety, health, agriculture, transport, the digital market and local planning. There is also a huge potential in addressing challenges such as migration, border management and sustainable development.

The Commission is invited to:

- **accelerate the economic exploitation of the Galileo, EGNOS and Copernicus programmes** by setting adequate targets for market development and by emphasising the benefits for citizens and businesses of satellite navigation and earth observation data and services;
- stimulate the adoption of **space technologies** by European, national, regional and local authorities;
- carry out a **systematic space check on compatibility with space programmes** before tabling any new legislative or non-legislative proposals.

Parliament acknowledged the role of space technologies, and of the two EU flagship space programmes, in making **land, maritime, air and space transport** smarter, safer, more secure and sustainable, and integrated in strategic future sectors such as self-driving and connected cars, and unmanned aerial vehicles.

Members also underlined the important role of the **European Structural and Investment Funds** (ESIF) in stimulating downstream space markets, most importantly through public procurement.

**Fostering a globally competitive and innovative European space sector:** stressing that the success and competitiveness of the space sector, and the development of breakthrough technologies, are highly dependent on research and innovation, Members called for the enhancement and extension of the dedicated space budget line under Framework Programme 9. They called on the Commission to extend the use of the **SME** instrument for scaling-up business opportunities in space-based products and services, both within Horizon 2020 and in future Framework Programmes.

Parliament called on the Commission, in the context of public procurement, to ensure fair treatment of EU enterprises vis-à-vis enterprises from third countries. It highlighted the importance of **reinforcing the European industrial base**, and of guaranteeing the EU's strategic autonomy, by diversifying sources of supply and making the best use of multiple EU providers.

**Space clusters** are thought to play a useful role in a space-industrial strategy.

**Reinforcing Europe's autonomy in accessing space:** while recalling that EU space programmes are of a civil nature, Parliament called on the Commission to analyse **synergies** between European space programmes and the European [Defence Action Plan](#) proposed in November 2016 to ensure overall coherence in this strategic field.

The Commission is called upon to:

- aggregate the demand of institutional customers from the European Union and the Member States to **ensure an independent, cost effective and reliable access to space** through the use of the European launchers Ariane, Vega and their future evolutions; the Commission is urged to come forward with a work programme for launch vehicles in Europe for the next 20 years;
- further develop the security of the Galileo infrastructure;
- encourage the development of alternative launching **technologies** and the inclusion of eco-design principles in all launchers and space assets;
- mitigate the risks presented by **space debris** by enhancing current space surveillance and tracking (SST) services;
- mitigate the **risks for EU space assets** by taking adequate measures, including, where appropriate, the use of encryption, for the protection of space-related infrastructure against cyber-threats.

The resolution stressed the importance of securing critical infrastructure and communications as well as space capabilities in the **fight against terrorism**.

**Strengthening Europe's role as a global actor and promoting international cooperation:** the Commission is called upon to promote EU space assets and space industrial capacity in all relevant aspects of its external relations.

In order to ensure a **peaceful and safe space environment**, Members advocated engaging with international partners to promote norms of responsible behaviour and sustainability, notably in relation to space exploration. They called on the Commission to monitor the existing private sector objectives in the field space mining.