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# Horizon 2020 Work Programme for Research & Innovation 2018-2020

## Space business, entrepreneurship, outreach and education

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REA



# DT SPACE-07-BIZ-2018: Space hubs for Copernicus

## What?

- **Coordination and support actions (CSA):** Description: Actions consisting primarily of accompanying measures such as standardisation, dissemination, awareness-raising and communication, networking, coordination or support services, policy dialogues and mutual learning exercises and studies, including design studies for new infrastructure and may also include complementary activities of strategic planning, networking and coordination between programmes in different countries.

## How much?

- Total budget: 2 million EUR
- Estimated amount per proposal: 1-2 million EUR
- Funding rate: 100%
- *Focus area: Digitising and transforming European industry and services*

# DT SPACE-07-BIZ-2018: Space hubs for Copernicus

<p><i>Horizon 2020 - Work Programme 2018-2020</i> <i>Leadership in Enabling and Industrial Technologies - Space</i></p> <p><b>DT-SPACE-07-BIZ-2018: Space hubs for Copernicus</b></p> <p><b>Specific Challenge:</b> The Commission has identified the need to support the creation of voluntary participative networks related to Earth observations and Copernicus. The Copernicus Relays and Academy have been set up under their own funding and act as channels of promotion and target, targeting intermediate and end-user communities.</p> <p>The Commission does not finance the members of the Copernicus Relays and Academy directly. The Commission finances:</p> <ul style="list-style-type: none"><li>• The Copernicus Support Office, which provides non-financial support to members of the two networks (e.g. updates, advice, promotional material);</li><li>• The Copernicus User Update Framework Partnership Agreement, through which the Commission co-finances user update activities with Member States. Some of these activities might be organised by members of the Copernicus Relays or Academy, but will focus exclusively on stimulating the use of Copernicus data and information (e.g. awareness events, blogs);</li></ul> <p>The Commission wishes to provide financial support to these two networks in order to strengthen their R&amp;D dimension. These networks need to be better linked with research and innovation activities and with the ESA Space Solutions. Moreover, the expertise and tools developed by the Copernicus Relays and the Copernicus Academy need to be used also at the service of research and innovation with a view to boosting their innovation potential and the uptake of space segments.</p> <p><b>Objectives:</b> Support the activities of the Copernicus Relays and the Copernicus Academy by:</p> <ul style="list-style-type: none"><li>• Organising joint initiatives of interest to the network and its members, such as events and educational opportunities;</li><li>• Sharing communication tools to ensure updates about the latest Copernicus events, lectures, new members, new training tools, best practices, and new funding opportunities;</li><li>• Developing publications and reference lectures for training on Copernicus data and information use, under a public license and including Copernicus-related material and modules in existing courses;</li><li>• Fostering user uptake and spin-off strategies of the members, notably by interacting with the Copernicus entrusted entities, Copernicus partners and local actors;</li><li>• Supporting the organisation of events and initiatives at local level to promote Copernicus to potential users.</li></ul> <p>Proposals shall demonstrate that they avoid overlap with the various activities financed under Copernicus, such as the Copernicus support office and Copernicus User Update Framework Partnership Agreement.</p>	<p><i>Horizon 2020 - Work Programme 2018-2020</i> <i>Leadership in Enabling and Industrial Technologies - Space</i></p> <p>The Commission considers that proposals requesting a contribution from the EU of EUR 1 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.</p> <p>This topic contributes to the Horizon 2020 Societal Themes 'Digitising and transforming European industry and services'.</p> <p><b>Expected Impact:</b></p> <ul style="list-style-type: none"><li>• Strengthens the synergies and cooperation between members by sharing knowledge building, education experiences, best practices and Copernicus-related research and applications outcomes and by enabling developed innovations to 'hit the market' as quickly as possible;</li><li>• Build up a knowledge culture and a strategic dialogue around the benefits of the Copernicus programme and its potential for both public services needs and societal challenges;</li><li>• Increase awareness about Copernicus toward all potential user communities;</li><li>• Engage these two networks to other European Regions and to other space technologies (e.g. Galileo) and activities from other major space and innovation actors (such as those of regional clusters, national space agencies and the ESA).</li></ul> <p><b>Type of Action:</b> Coordination and support action</p> <p><i>The conditions related to this topic are provided at the end of this call and in the General Annexes.</i></p> <p><b>DT-SPACE-06-BIZ-2018: Space outreach and education</b></p> <p><b>Specific Challenge:</b> One of the main challenges for the sustainability of the European space industrial fabric and the delivery of cutting-edge scientific achievements is to maintain highly qualified scientists, engineers and technicians including their lifelong learning. Space science and technology continue to represent important inspirational tools for exciting and motivating young people, and encouraging them to choose space-related careers. Space is also a domain that easily captures the interest of students towards education paths in the fields of science, technology, engineering and mathematics.</p> <p>Positive exposure to and experiences in the space domain can contribute moreover to building long-term partnerships between people from different cultural backgrounds and countries inside and outside Europe. The challenge is to design and run sustainable education and outreach activities which can act as catalysts, both inside and outside the classroom, motivating teachers and students at different age and education levels.</p> <p><b>Objectives:</b> The main delivery of the action shall be an initiative capable of attracting the interest of a significant number of students towards space and space-related careers, while creating at the same time a relevant impact on their families and the general public in terms of news</p>
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## Excellence:

Support the Copernicus Relays and the Copernicus Academy ...to strengthen their R&D dimension ...to be better linked with research and innovation activities and with the ESA Space Solutions ... the expertise and tools to be used also at the service of research and innovation

- Joint initiatives (events and educational opportunities) and communication tools
- Publications and reference lectures for training on Copernicus data and information use (public license, including Copernicus material in existing courses);
- Fostering user uptake and spin-off strategies of the members by interacting with the Copernicus entrusted entities, Copernicus partners and local actors;
- Supporting the organisation of events and initiatives at local level to promote Copernicus to users.

demonstrate that they avoid overlap with the various activities financed under Copernicus

# DT SPACE-07-BIZ-2018: Space hubs for Copernicus

<p><i>Horizon 2020 - Work Programme 2019-2020</i> <i>Leadership in Enabling and Industrial Technologies - Space</i></p> <p><b>DT-SPACE-07-BIZ-2018: Space hubs for Copernicus</b></p> <p><b>Specific Challenge:</b> The Commission has identified the need to support the creation of voluntary participative networks related to Earth observations and Copernicus. The Copernicus Relays and Academy have been set up under their own funding and act as channels of promotion and target, targeting intermediate and end-user communities.</p> <p>The Commission does not finance the members of the Copernicus Relays and Academy directly. The Commission finances:</p> <ul style="list-style-type: none"><li>• The Copernicus Support Office, which provides non-financial support to members of the two networks (e.g. specialist, advice, promotional material);</li><li>• The Copernicus User Update Framework, Partnership Agreement, through which the Commission co-finances user update activities with Member States. Some of these activities might be organised by members of the Copernicus Relays or Academy, but will focus exclusively on stimulating the use of Copernicus data and information (e.g. awareness events, booths).</li></ul> <p>The Commission wishes to provide financial support to these two networks in order to strengthen their R&amp;D dimension. These networks need to be better linked with research and innovation activities and with the ESA Space Solutions. Moreover, the expertise and tools developed by the Copernicus Relays and the Copernicus Academy need to be used also at the service of research and innovation with a view to boosting their innovation potential, and the uptake of space in general.</p> <p><b>Scope:</b> Support the activities of the Copernicus Relays and the Copernicus Academy by:</p> <ul style="list-style-type: none"><li>• Organising joint initiatives of interest to the network and its members, such as events and educational opportunities;</li><li>• Sharing communication tools to ensure updates about the latest Copernicus events, lectures, new members, new training tools, best practices, and new funding opportunities;</li><li>• Develop publications and reference lectures for training on Copernicus data and information use, under a public license and including Copernicus-related material and modules in existing courses;</li><li>• Fostering user uptake and spin-off strategies of the members, notably by interacting with the Copernicus entrusted entities, Copernicus partners and local actors;</li><li>• Supporting the organisation of events and initiatives at local level to promote Copernicus to potential users.</li></ul> <p>Proposals shall demonstrate that they avoid overlap with the various activities financed under Copernicus, such as the Copernicus support office and Copernicus User Update Framework Partnership Agreement.</p>	<p><i>Horizon 2020 - Work Programme 2019-2020</i> <i>Leadership in Enabling and Industrial Technologies - Space</i></p> <p>The Commission considers that proposals requesting a contribution from the EU of EUR 1 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts. This topic contributes to the Horizon 2020 focus area "Digitising and transforming European industry and services".</p> <p><b>Expected Impact:</b></p> <ul style="list-style-type: none"><li>• Strengthen the synergies and cooperation between members by sharing knowledge building, education experiences, best practices and Copernicus-related research and applications outcomes and by enabling developed innovations to "hit the market" as quickly as possible;</li><li>• Build up a knowledge culture and a strategic think-tank around the benefits of the Copernicus programme and its potential for both public services needs and societal challenges;</li><li>• Increase awareness about Copernicus toward all potential user communities;</li><li>• Expand these two networks to other European Regions and to other space technologies (e.g. Galileo) and activities from other major space and innovation actors (such as those of regional clusters, national space agencies and the ESA).</li></ul> <p><b>Type of Action:</b> Coordination and support action</p> <p><i>The conditions related to this topic are provided at the end of this call and in the General Annexes.</i></p> <p><b>DT-SPACE-05-BIZ-2018: Space outreach and education</b></p> <p><b>Specific Challenge:</b> One of the main challenges for the sustainability of the European space industrial fabric and the delivery of cutting-edge scientific achievements is to maintain highly qualified scientists, engineers and technicians including their lifelong learning. Space science and technology continue improving inspirational tools for exciting and motivating young people, and encouraging them to choose space related careers. Space is also a domain that easily captures the interest of students towards education paths in the fields of science, technology, engineering and mathematics.</p> <p>Positive exposure to and experiences in the space domain can contribute moreover to building long-term partnerships between people from different cultural backgrounds and countries inside and outside Europe. The challenge is to design and run sustainable education and outreach activities which can act as catalysts, both inside and outside the classroom, motivating teachers and students at different ages and education levels.</p> <p><b>Scope:</b> The main delivery of the action shall be an initiative capable of attracting the interest of a significant number of students towards space and space-related themes, while creating at the same time a relevant impact on their families and the general public in terms of career</p>
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## Impact:

- Synergies and cooperation between members
- A knowledge culture and a think-tank around the benefits of the Copernicus programme and its potential for both public services needs and societal challenges;
- Awareness about Copernicus toward all potential user communities.
- Expand these two networks to other European Regions and to other space technologies and activities from other major space and innovation actors.

# DT-SPACE-08-BIZ-2018:

## Space outreach and education

### What?

- **Coordination and support actions (CSA):** Description: Actions consisting primarily of accompanying measures such as standardisation, dissemination, awareness-raising and communication, networking, coordination or support services, policy dialogues and mutual learning exercises and studies, including design studies for new infrastructure and may also include complementary activities of strategic planning, networking and coordination between programmes in different countries.

### How much?

- Total budget: 2 million EUR
- Estimated amount per proposal: 1-2 million EUR
- Funding rate: 100%
- *Focus area: Digitising and transforming European industry and services*

# DT-SPACE-08-BIZ-2018: Space outreach and education

<p><i>Horizon 2020 - Work Programme 2018-2020 Leadership in Enabling and Industrial Technologies - Space</i></p> <p>applications outcome and by enabling developed innovations to "hit the market" as quickly as possible;</p> <ul style="list-style-type: none"><li>Build up a knowledge culture and a strategic think-tank around the benefits of the Copernicus programme and its potential for both public services needs and societal challenges;</li><li>Increase awareness about Copernicus toward all potential user communities.</li><li>Expand these two networks to other European Regions and to other space technologies (e.g. Galileo) and activities from other major space and innovation actors (such as those of regional clusters, national space agencies and the ESA).</li></ul> <p><b>Type of Action:</b> Coordination and support action</p> <p><i>The conditions related to this topic are provided at the end of this call and in the General Annexes.</i></p> <p><b>DT-SPACE-08-BIZ-2018: Space outreach and education</b></p> <p><b>Specific Challenge:</b> One of the main challenges for the sustainability of the European space industrial fabric and the delivery of cutting-edge scientific achievements is to maintain highly qualified scientists, engineers and technicians including their lifelong learning. Space science and technology constitute important inspirational tools for exciting and motivating young people, and encouraging them to choose space related careers. Space is also a domain that easily captures the interest of students towards education paths in the fields of science, technology, engineering and mathematics.</p> <p>Positive exposure to and experiences in the space domain can contribute moreover to building long-term partnerships between peoples from different cultural backgrounds and countries inside and outside Europe. The challenge is to design and run sustainable education and outreach activities which can act as catalysts, both inside and outside the classroom, motivating teachers and students at different ages and education levels.</p> <p><b>Scope:</b> The main delivery of the action shall be an initiative capable of attracting the interest of a significant number of students towards space and space-related themes, while creating at the same time a relevant impact on their families and the general public in terms of news coverage, social media interest, stakeholders' involvement. The action shall engage academia and educators involved in different education levels, targeting different demographics including young children and teenagers.</p> <p>The key advancements of the European space programmes should be given a privileged position, but the main objective should remain attracting the interest of students for space, space-related subjects and steer them towards education paths in the fields of science, technology, engineering and mathematics.</p>	<p><i>Horizon 2020 - Work Programme 2018-2020 Leadership in Enabling and Industrial Technologies - Space</i></p> <p>Proposals should take into account similar activities of ESA and national education programmes. They could focus in the context of the classroom or outside the normal classroom environment, making use of space educational centres or online resources, including centers and public exhibitions (for instance in science museums). Particular attention should be paid to stimulating interest amongst female students and reaching children in underprivileged communities.</p> <p>Activities shall also aim at identifying links with the Knowledge and Innovation Communities (KICs) of the European Innovation Institute of Technology (EIT) and possible scope for dedicated activities for space.</p> <p>The Commission considers that proposals requesting a contribution from the EU of EUR 1 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submissions and selections of proposals requesting other amounts.</p> <p>This topic contributes to the Horizon 2020 focus area "Digitising and transforming European industry and services".</p> <p><b>Expected impact:</b></p> <ul style="list-style-type: none"><li>Promote the network: European space education and outreach actors and reach out to a significant number of students, their families and the general public.</li><li>Achieve a significant coverage by media and attention by stakeholders and help increase the political support for European space programmes and initiatives within the EU and national Parliaments.</li><li>Increase the number of students that opt for a technical career related to space when compared to the general population of students in their cohorts.</li><li>Promote research in collaboration with universities.</li><li>Reinforce links between space and the EIT KICs and explore options for a dedicated space KIC.</li></ul> <p><b>Type of Action:</b> Coordination and support action</p> <p><i>The conditions related to this topic are provided at the end of this call and in the General Annexes.</i></p> <p><b>DT-SPACE-09-BIZ-2019: Space hubs (support to start-ups)</b></p> <p><b>Specific Challenge:</b> The challenge is to increase the number of initiatives for start-ups, scale-ups and entrepreneurs in the space downstream and upstream sectors (such as Incubators, Accelerators, Hackathons or AppCamps), provide solutions to accelerate the growth of space scale-ups and the commercialisation of their products, engage small and medium enterprises in space innovation, especially those not traditionally involved in it, and reduce as much as possible the entry barriers to SMEs for Horizon 2020 to develop space-enabled solutions.</p>
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## Excellence:

- Initiative attracting the interest of young people towards space, motivating them to choose space related careers and education in STEM
- Engage academia and educators at different levels of education targeting young children, teenagers, women students and underprivileged communities
- Run sustainable education activities, inside and outside the classroom using online resources, public spaces, contests
- Explore options for space activities within the existing KICs of the EIT and a specific space KIC

Take into account similar activities of ESA and national education programmes

# DT-SPACE-08-BIZ-2018: Space outreach and education

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applications outcome and by enabling developed innovations to 'hit the market' as quickly as possible;

- Build up a knowledge culture and a strategic think-tank around the benefits of the Copernicus programme and its potential for both public services needs and societal challenges;
- Increase awareness about Copernicus toward all potential user communities;
- Expand these two networks to other European Regions and to other space technologies (e.g. Galileo) and activities from other major space and innovation actors (such as those of regional clusters, national space agencies and the ESA).

**Type of Action:** Coordination and support action

*The conditions related to this topic are provided at the end of this call and in the General Annexes.*

**DT-SPACE-08-BIZ-2018: Space outreach and education**

**Specific Challenge:** One of the main challenges for the sustainability of the European space industrial fabric and the delivery of cutting-edge scientific achievements is to maintain highly qualified scientists, engineers and technicians including their lifelong learning. Space science and technology constitute important inspirational tools for exciting and motivating young people, and encouraging them to choose space related careers. Space is also a domain that easily captures the interest of students towards education paths in the fields of science, technology, engineering and mathematics.

Positive exposure to and experiences in the space domain can contribute moreover to building long-term partnerships between peoples from different cultural backgrounds and countries inside and outside Europe. The challenge is to design and run sustainable education and outreach activities which can act as catalysts, both inside and outside the classroom, motivating teachers and students at different ages and education levels.

**Scope:** The main delivery of the action shall be an initiative capable of attracting the interest of a significant number of students towards space and space-related themes, while creating at the same time a relevant impact on their families and the general public in terms of news coverage, social-media interest, stakeholders' involvement. The action shall engage academia and educators involved in different education levels, targeting different demographics including young children and teenagers.

The key advancements of the European space programmes should be given a privileged position, but the main objective should remain attracting the interest of students for space, space-related subjects and steer them towards education paths in the fields of science, technology, engineering and mathematics.

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Proposals should take into account similar activities of ESA and national education programmes. They could focus in the context of the classroom or outside the normal classroom environment, making use of space educational centres or online resources, including contests and public exhibitions (for instance in science museums). Particular attention should be paid to stimulating interest amongst female students and reaching children in underprivileged communities.

Activities shall also aim at identifying links with the Knowledge and Innovation Communities (KICs) of the European Innovation Institute of Technology (EIT) and possible scope for dedicated activities for space.

The Commission considers that proposals requesting a contribution from the EU of EUR 1 million would allow the specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

This topic contributes to the Horizon 2020 focus area "Digitising and transforming European industry and services".

**Expected Impact:**

- Promote the network European space education and outreach actors and reach out to a significant number of students, their families and the general public;
- Achieve a significant coverage by media and attention by stakeholders and help increase the political support for European space programmes and initiatives within the EU and national Parliaments;
- Increase the number of students that opt for a technical career related to space when compared to the general population of students in their cohorts;
- Promote research in collaboration with universities;
- Reinforce links between space and the EIT KICs and explore options for a dedicated space KIC.

**Type of Action:** Coordination and support action

*The conditions related to this topic are provided at the end of this call and in the General Annexes.*

**DT-SPACE-09-BIZ-2019: Space hubs (support to start-ups)**

**Specific Challenge:** The challenge is to increase the number of initiatives for start-ups, scale-ups and entrepreneurs in the space downstream and upstream sectors (such as incubators, Accelerators, Hackathons or App/Camp), provide solutions to accelerate the growth of space scale-ups and the commercialisation of their products, engage small and medium enterprises in space innovation, especially those not traditionally involved in it, and reduce as much as possible the entry barriers to SMEs for Horizon 2020 to develop space-enabled solutions.

## IMPACT:

- Promote the network European space education and outreach actors
- Reach out to students, their families and the general public (a significant number of students of different ages, their families and the general public)
- Media coverage and stakeholders' attention
- Increase the political support for European space programmes and initiatives within EU and national Parliaments
- Increase the number of students that opt for a technical career related to space
- Promote research in collaboration with universities
- Reinforce links between space and the EIT KICs

# Thank you!

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