



# HORIZON 2020

## SPACE

DG GROW – Internal Market, Industry Entrepreneurship and SMEs  
GROW/I1 - Space Policy and Research Unit  
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Paris, 12 October 2017



# European Union Space Programmes

## Multiannual Financial Framework 2014-2020



**~ 1 479 M€**



**~ 4 291 M€**



**~ 7 071 M€**

**~ 12 841 M€**

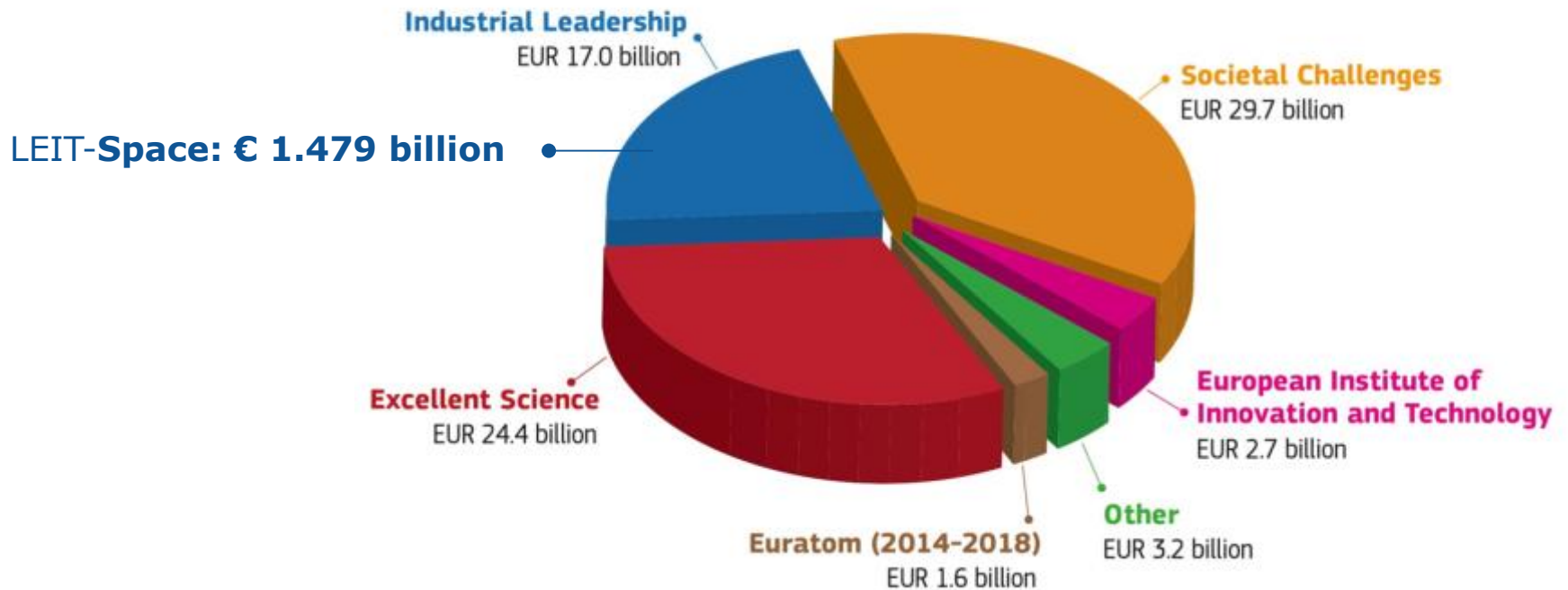


# Space research in Horizon 2020



## Space in H2020

**HORIZON 2020 BUDGET (in current prices): € 79 billion**



## Links to other H2020 parts

### Excellent science

#### Priority 1 – **Excellent science**

- **European Research Council (ERC)**
- **Future and Emerging Technologies (FET)**
- **Marie Skłodowska-Curie Actions**
- **Research Infrastructures**

### Industrial leadership

#### Priority 2 – **Industrial leadership**

- **Leadership in enabling and industrial technologies (LEIT)**
  - **Information and Communication Technologies (ICT)**
  - **Nanotechnologies**
  - **Biotechnology**
  - **Advanced manufacturing and Processing**
  - **Space**
- **Access to risk finance**
- **Innovation in SMEs**

### Societal challenges

#### Priority 3 – **Societal Challenges**

- **SC1 - Health, demographic change and well-being**
- **SC2 - Food security, sustainable agriculture and forestry, Marine, Maritime and Inland water research, and Bioeconomy**
- **SC3 - Secure, clean and efficient energy**
- **SC4 - Smart, green and integrated transport**
- **SC5 - Climate action, Environment, Resource efficiency and Raw materials**
- **SC6 - Europe in a changing world – Inclusive, Innovative and Reflective societies**
- **SC7 - Secure societies – Protecting freedom and Security of Europe and its citizens**



- Enabling European **competitiveness, non-dependence** and **innovation** of the European space sector
  - ✓ Safeguard and further develop a competitive, sustainable and entrepreneurial space industry and research community and strengthen European non-dependence in space systems
  - ✓ Boost innovation between space and non-space sectors
- Enabling advances in **space technologies**
- Enabling the **exploitation of space data**
- Enabling European research in support of **international space partnerships**
- The application of space technologies shall be supported through the respective specific objectives of the priority "**Societal challenges**", where appropriate

*For more information please consult Council Decision of 3 December 2013, [OJ L 347/993](#).*



## EU Agencies involved

- **Research Executive Agency (REA)**
- **European GNSS Agency (GSA)**
- **Executive Agency for SMEs (EASME)**

### **TASKS include:**

Handling of calls and submission of proposals, evaluation process, grant agreement preparation, grant agreements signature, handling submission of reports , reviews, payments, audits...





# Horizon 2020 Space Work Programme 2018 - 2020

*Information and topic descriptions indicated in this draft presentation may not appear in the final work programme; and likewise, new elements may be introduced at a later stage. Any information disclosed by any other party shall not be construed as having been endorsed by or affiliated to the Commission.*

*The Commission expressly disclaims liability for any future changes of the content of this document.*

*The content is indicative pending adoption by end October 2017*

## *Important dates*

DATE	
11 Oct	Draft work programme available <a href="https://ec.europa.eu/programmes/horizon2020/en/what-work-programme">https://ec.europa.eu/programmes/horizon2020/en/what-work-programme</a>
27 Oct	Work programme adoption and publication
31 Oct	Space call opening
8-9 Nov	European Space Week, Tallin <a href="http://www.eusw2017.eu/">http://www.eusw2017.eu/</a>
<b>6 March 2018</b>	Space call deadline
Mid 2018	Work Programme update (including details for 2020)

# Horizon 2020 Space 2018-2020 'calls'



## Horizon 2020 Participants Portal:

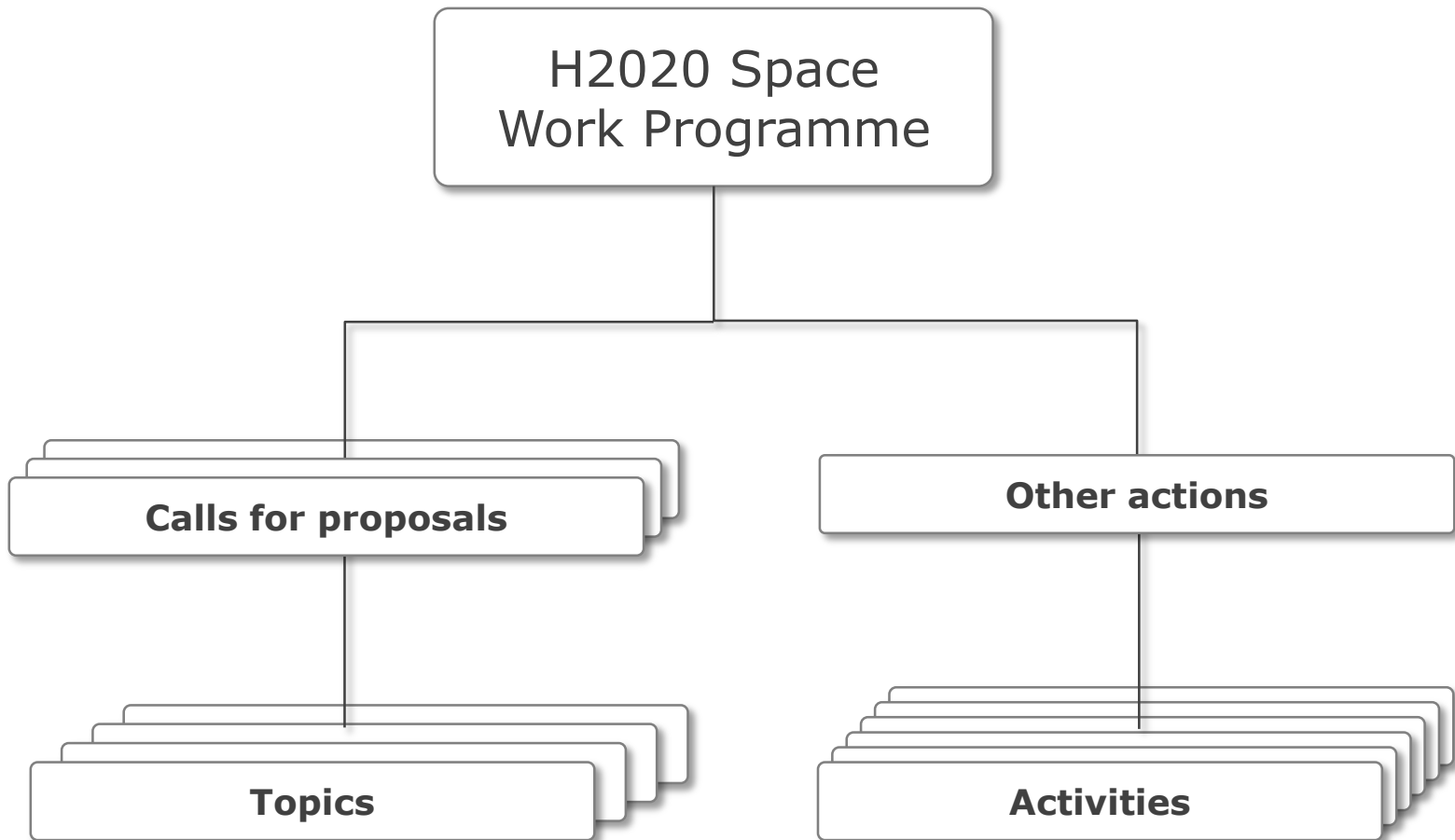
<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/>

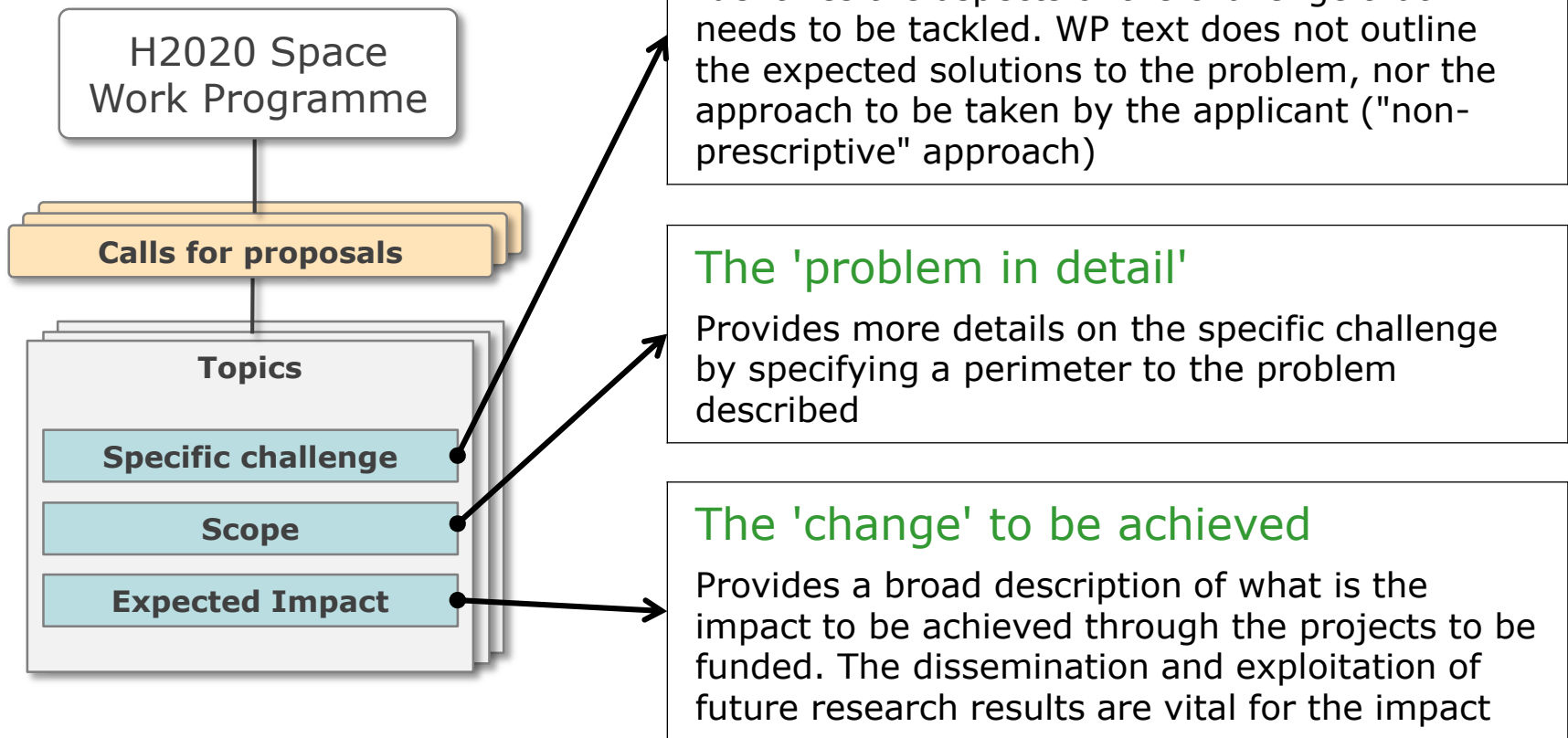
The screenshot shows the 'RESEARCH & INNOVATION Participant Portal' interface. On the left, there are navigation menus for 'EU Programmes 2014-2020' (with 'H2020' selected), 'FP7 & CIP Programmes 2007-2013', and 'Other Funding Opportunities'. The main content area is titled 'Calls for Proposals' and features a list of categories: 'Advanced materials', 'Biotechnology', 'Advanced manufacturing and processing', 'Space', 'Access to risk finance', 'Innovation in SMEs', 'Societal Challenges', and 'Health, demographic change and wellbeing'. The 'Space' category is highlighted with a red box and a red arrow pointing from a callout box. Below this, there is a grid of call cards, each with a title, description, and publication date. A red dashed box encloses the entire grid of call cards. A second red arrow points from a callout box to the grid.

Call Title	Publication Date
Industrial Leadership Applications in Satellite Navigation-Galileo 2014-2015	11-12-2013
Industrial Leadership Horizon 2020 dedicated SME Instrument Phase 1 and 2, 2014-2015	11-12-2013
Industrial Leadership H2020-LEIT-Space-Competitiveness of the European Space Sector-2014	11-12-2013
Industrial Leadership H2020-LEIT-Space-Competitiveness of the European Space Sector-2015	11-12-2013
Industrial Leadership Earth Observation-2014-LEIT SPACE	11-12-2013
Industrial Leadership Earth Observation-2015-LEIT SPACE	11-12-2013
Industrial Leadership Protection of European assets in and from Space-2014-LEIT SPACE	11-12-2013
Industrial Leadership Protection of European assets in and from Space-2015-LEIT SPACE	11-12-2013

H2020 Space  
Work Programme

Calls for  
proposals







- **Research and innovation actions (Funding rate: 100%):** Projects aiming to establish new knowledge, new or improved technology by possibly including basic and applied research, technology development, testing and validation on a small-scale prototype.
- **Innovation actions (Funding rate: 70% - exception: 100% for non-profit legal entities):** Projects aiming to produce plans, arrangements or designs for a new or improved product, design, process or service by possibly including large-scale product validation and market replication.
- **Coordination and support actions (Funding rate: 100%):** Projects consisting of accompanying/complementary measures (standardisation, awareness-raising, communication, policy dialogues, networking, studies, etc.)

Full detailed description can be found in the **General Annexes 20 – part D** of the Work Programme 2016-2017: [http://ec.europa.eu/research/participants/data/ref/h2020/other/wp/2016-2017/annexes/h2020-wp1617-annex-ga\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/other/wp/2016-2017/annexes/h2020-wp1617-annex-ga_en.pdf)

## WP 2018-2020 building blocks

### Maximising benefits of space for society and EU economy

#### SPACE-EO

- EO market uptake
- Copernicus mission and services evolution
- International coop.
- Big data

#### SPACE-EGNSS

- EGNSS market uptake
- EGNSS infrastructure, mission and services evolution

#### SPACE-BIZ

- Support to space hubs
- Space outreach and education
- Horizon Prize for European low-cost space launch
- Innovfin Space Equity Pilot (ISEP)
- SME Instrument
- Fast-track to Innovation

### Globally competitive and innovative space sector

#### SPACE-TEC and SPACE-SCI

- Technologies for European non-dependence and competitiveness
- Strategic research clusters
- Generic space technologies
- EO and SatCom technologies
- In-orbit validation/demonstration
- Scientific instrumentation and technologies enabling space science and exploration

### Access to space & Secure and safe space environment

#### SPACE-TEC

- Access to space

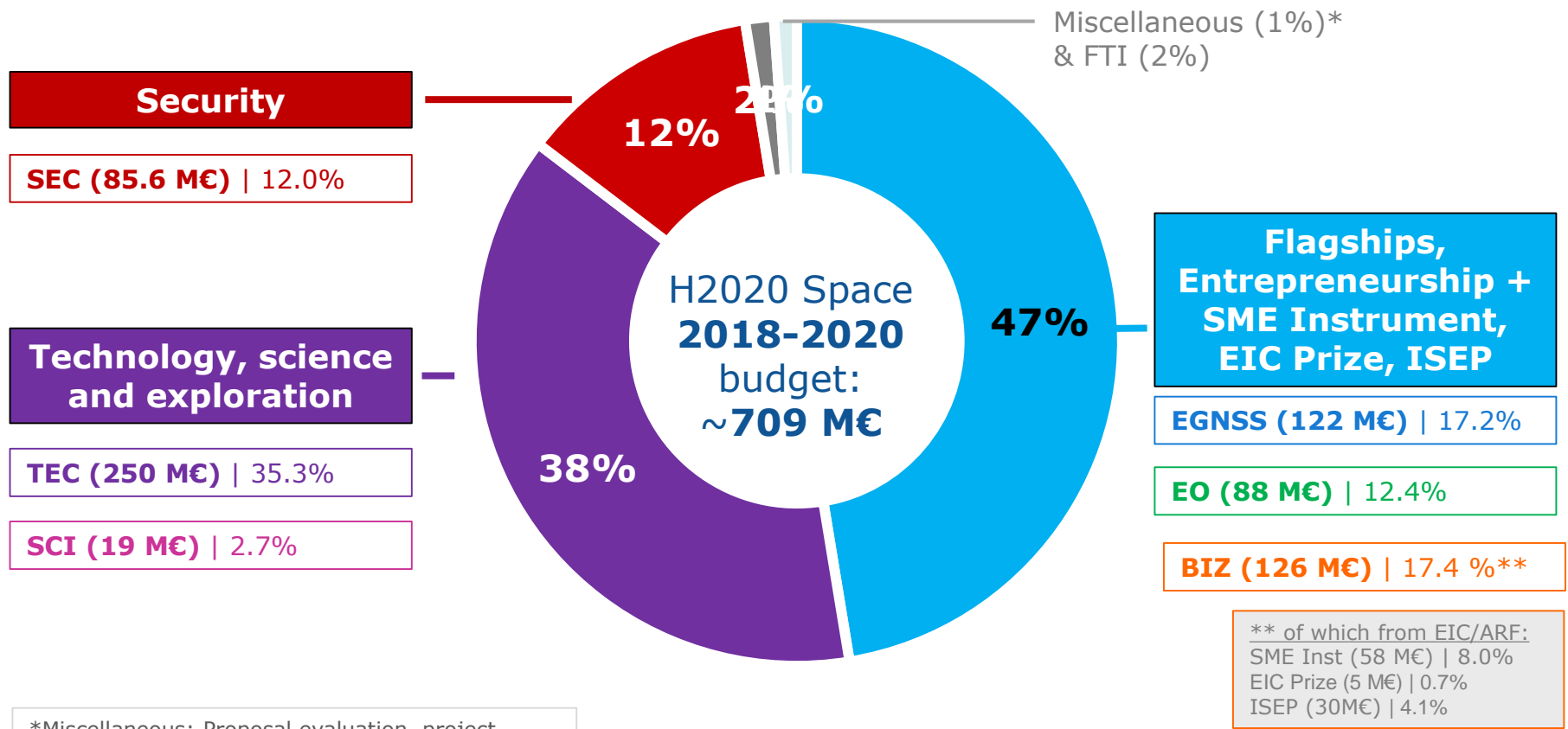
#### SPACE-SEC

- Space weather
- Exploring concepts for space traffic management
- Space Surveillance and Tracking (SST)
- Near Earth Objects

+ under "other actions": REA/GSA project monitoring, studies & communication and support to the Space NCPs network



# Indicative budget breakdown (2018-2020)



\*Miscellaneous: Proposal evaluation, project monitoring, support to the NCP network; studies and communication activities

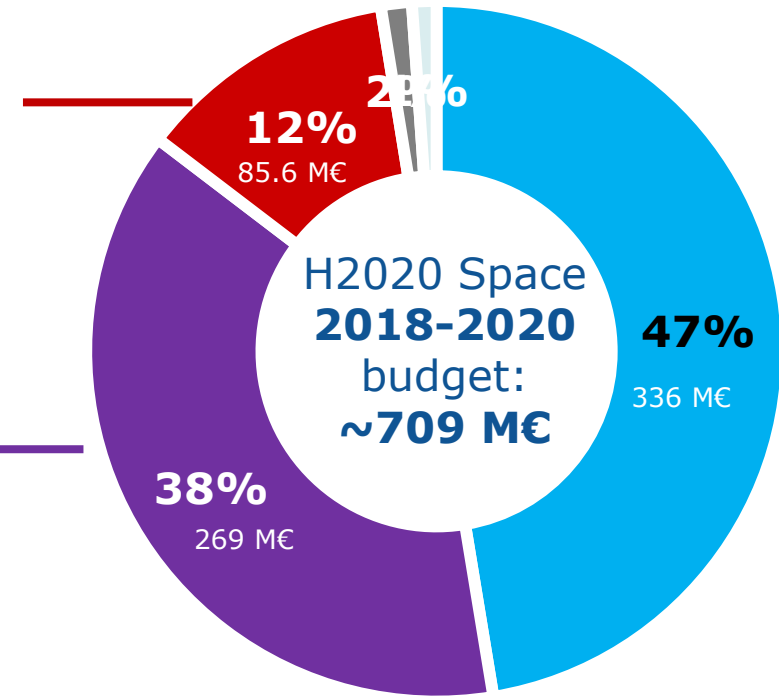
\*\* of which from EIC/ARF:  
SME Inst (58 M€) | 8.0%  
EIC Prize (5 M€) | 0.7%  
ISEP (30M€) | 4.1%



# Indicative budget breakdown per year

2018	2019	2020
<b>Security</b>		
<b>SEC (85.6 M€)</b>		
<b>16.8</b>	<b>30.9</b>	<b>37.9</b>

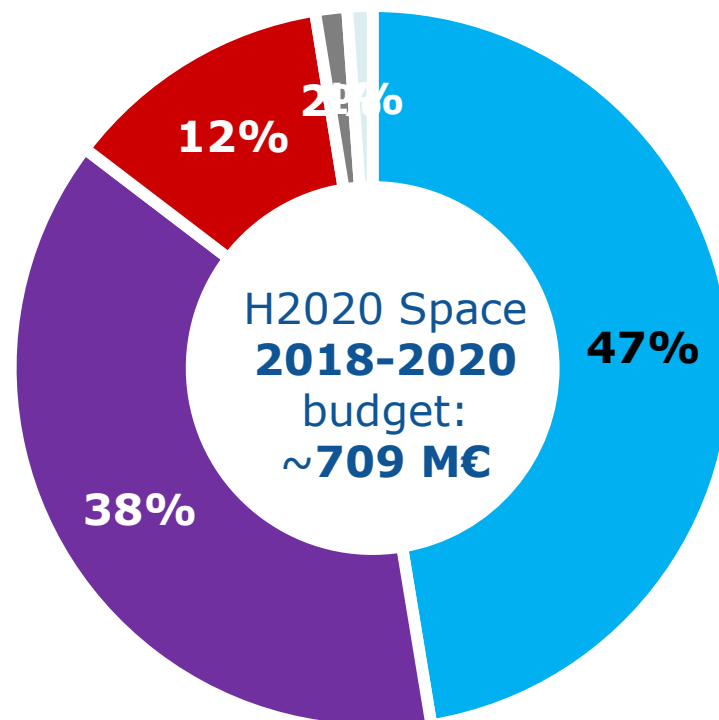
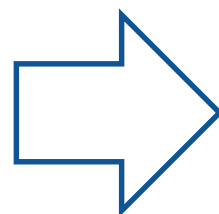
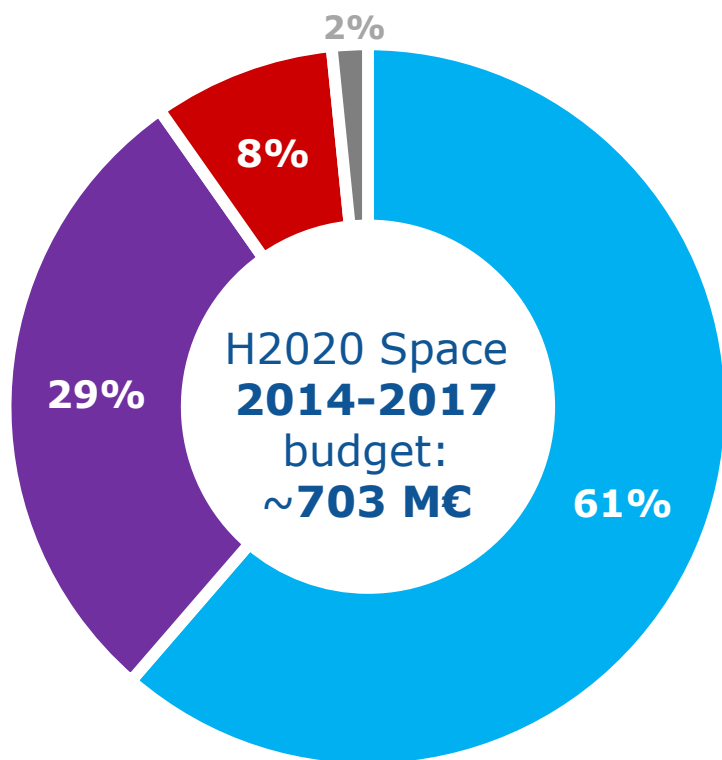
2018	2019	2020
<b>Technology, science and exploration</b>		
<b>TEC (250 M€)</b>		
<b>91.0</b>	<b>75.0</b>	<b>103.0</b>
<b>SCI (19 M€)</b>		
10.0	0.0	9.0



2018	2019	2020
<b>Flagships and Entrepreneurship</b>		
<b>101.3</b>	<b>121.3</b>	<b>113.4</b>
<b>EGNSS (122 M€)</b>		
36.0	54.0	32.0
<b>EO (88 M€)</b>		
22.0	31.0	35.0
<b>BIZ (33 M€)</b>		

	2018	2019	2020
<b>In addition, by EIC &amp; ARF:</b>	10.0	9.0	14.0
<b>SME Instrument</b>	19.3	19.3	19.4
<b>EIC prize</b>			5.0
<b>ISEP</b>	14.0	8.0	8.0

## Budget breakdown: from 2014-2017 to 2018-2020



- Flagships and Entrepreneurship (EGNSS, EO, SME Inst & FTI)
- Technology, science and exploration (COMPET)
- Security (PROTEC & SST)
- Miscellaneous

- Flagships and Entrepreneurship (EGNSS, EO, BIZ) + SME instrument, EIC Prize and ISEP
- Technology, science and exploration (TEC, SCI)
- Security (SEC)
- Miscellaneous & FTI

# Earth observation



Space call 2018: €22 million;  
(2018-2020: €88 million)

Deadline: 6 March 2018

## Call – Space 2018-2020

### Earth Observation

Topics	Type of Action	Indicative budget (€ million)		
		2018	2019	2020
SPACE-01-EO-2018-2020: <b>Copernicus market uptake</b>	IA	9.0	9.0	9.0
SPACE-02-EO-2018: <b>Copernicus evolution – Mission exploitation concepts</b>	CSA	8.0		
SPACE-03-EO-2018: <b>Copernicus evolution – preparing for the next generation of Copernicus Marine Service ocean models</b>	RIA	5.0		
SPACE-04-EO-2019-2020: <b>Copernicus evolution – Research activities in support of cross-cutting applications between Copernicus services</b>	RIA		8.0	8.0

### Earth Observation

Topics	Type of Action	Indicative budget (€ million)		
		2018	2019	2020
SPACE-05-EO-2019: <b>Copernicus evolution – Research activities in support to a European operational monitoring system for fossil CO2 emissions</b>	RIA		9.0	
SPACE-06-EO-2019: <b>International Cooperation Copernicus – Designing EO downstream applications with international partners</b>	RIA		5.0	
SPACE-24-EO-2020: <b>Copernicus evolution – Mission exploitation concepts</b>	RIA			8.0
SPACE-25-EO-2020: <b>Copernicus big data algorithm factory</b>	RIA			10.0

## Earth Observation

Topics	Type of Action	Indicative budget (€ million)		
		2018	2019	2020
SPACE-01-EO-2018-2020: <b>Copernicus market uptake</b>	<b>IA</b>	<b>9.0</b>	<b>9.0</b>	<b>9.0</b>
SPACE-02-EO-2018: <b>Copernicus evolution – Mission exploitation concepts</b>	<b>CSA</b>	<b>8.0</b>		
SPACE-03-EO-2018: <b>Copernicus evolution – preparing for the next generation of Copernicus Marine Service ocean models</b>	<b>RIA</b>	<b>5.0</b>		
SPACE-04-EO-2019-2020: <b>Copernicus evolution – Research activities in support of cross-cutting applications between Copernicus services</b>	<b>RIA</b>		<b>8.0</b>	<b>8.0</b>

## Earth Observation

Topics	Type of Action	Indicative budget (€ million)		
		2018	2019	2020
<b>SPACE-05-EO-2019: Copernicus evolution – Research activities in support to a European operational monitoring system for fossil CO2 emissions</b>	<b>RIA</b>		<b>9.0</b>	
<b>SPACE-06-EO-2019: International Cooperation Copernicus – Designing EO downstream applications with international partners</b>	<b>RIA</b>		<b>5.0</b>	
<b>SPACE-24-EO-2020: Copernicus evolution – Mission exploitation concepts</b>	<b>RIA</b>			<b>8.0</b>
<b>SPACE-25-EO-2020: Copernicus big data algorithm factory</b>	<b>RIA</b>			<b>10.0</b>

# Space business and entrepreneurship



Indicative budget  
Space call 2018: 4 M€  
(2018-2020: 136 M€)

Deadline:  
6 March 2018

## Call – Space 2018-2020 & Other actions for 2018-2020

### Space business, entrepreneurship, outreach and education

Topics	Type of Action	Indicative budget (€ million)		
		2018	2019	2020
DT-SPACE-07-BIZ-2018: <b>Space hubs for Copernicus market uptake</b>	CSA	2.0		
DT-SPACE-08-BIZ-2018: <b>Space outreach and education</b>	CSA	2.0		
DT-SPACE-09-BIZ-2019: <b>Space hubs – support to start-ups</b>	CSA		2.0	
DT-SPACE-26-BIZ-2020: <b>Space hubs – support to start-ups</b>	CSA			2.0

### Space business, entrepreneurship, through the EIC/ARF

Actions	Type of Action	Indicative budget (€ million)		
		2018	2019	2020
<b>EIC Horizon prize "Low cost space launch"</b>	<b>Inducement Prize</b>			10.00
<b>InnovFin Space Equity Pilot (ISEP)</b>	<b>Financial Instrument</b>	20.0	15.0	15.0
<b>SME Instrument</b>	<b>Grants</b>	57.93		
<b>Fast-track to innovation</b>	<b>Grants</b>	3.37	3.37	3.37



## Call – Space 2018-2020 & Other actions for 2018-2020

### Space business, entrepreneurship, outreach and education

Topics	Type of Action	Indicative budget (€ million)		
		2018	2019	2020
SPACE-07-BIZ-2018: <b>Space hubs for Copernicus market uptake</b>	<b>CSA</b>	<b>2.0</b>		
SPACE-08-BIZ-2018: <b>Space outreach and education</b>	<b>CSA</b>	<b>2.0</b>		
SPACE-09-BIZ-2019: <b>Space hubs – support to start-ups</b>	<b>CSA</b>		<b>2.0</b>	
SPACE-26-BIZ-2020: <b>Space hubs – support to start-ups</b>	<b>CSA</b>			<b>2.0</b>

## Call – Space 2018-2020 & Other actions for 2018-2020

### Space business, entrepreneurship, through the EIC/ARF

Actions	Type of Action	Indicative budget (€ million)		
		2018	2019	2020
<b>EIC Horizon prize "Low cost space launch"</b>	<b>Inducement Prize</b>			<b>10.00</b>
<b>InnovFin Space Equity Pilot (ISEP)</b>	<b>Financial Instrument</b>	<b>20.0</b>	<b>15.0</b>	<b>15.0</b>
<b>SME Instrument</b>	<b>Grants</b>	<b>57.93</b>		
<b>Fast-track to innovation</b>	<b>Grants</b>	<b>3.37</b>	<b>3.37</b>	<b>3.37</b>

# Competitiveness of the European Space Sector Technology and Science

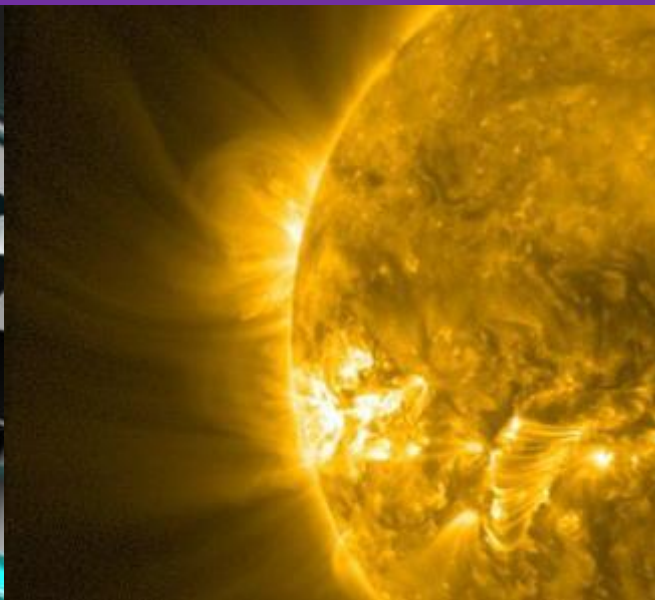
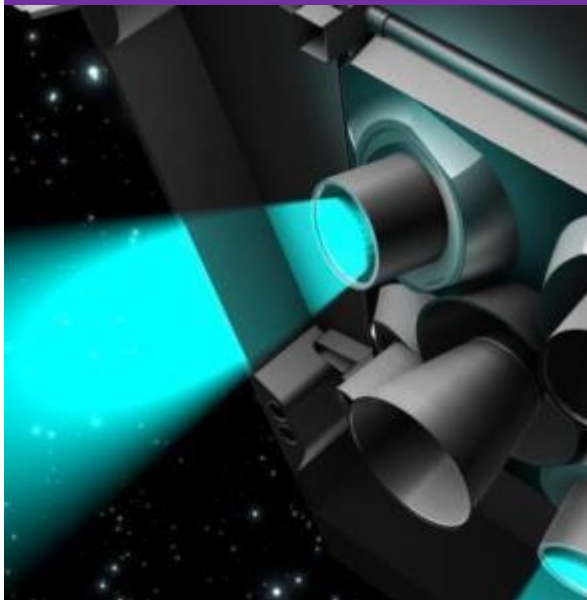


Image Credits: ESA

Space call 2018: 78 M€;    Deadline: 6 March 2018  
(2018-2020: 269 M€)

## Call – Space 2018-2020

### Space technologies, science and exploration

Topics	Type of Action	Indicative budget (€ million)		
		2018	2019	2020
SPACE-10-TEC-2018-2019-2020: <b>Technologies for European non-dependence and competitiveness</b>	RIA	12.0	12.0	12.0
SPACE-11-TEC-2018: <b>Generic space technologies</b>	RIA	11.0		
SPACE-12-TEC-2018: <b>SRC – Space Robotics Technologies</b>	RIA	18.0		
SPACE-13-TEC-2019: <b>SRC – In-Space electrical propulsion and station keeping</b>	RIA		10.0	
SPACE-14-TEC-2018-2019: <b>Earth observation technologies</b>	RIA	8.0	8.0	
SPACE-15-TEC-2018: <b>Satellite communication technologies</b>	RIA	9.0		
SPACE-16-TEC-2018: <b>Access to space</b>	RIA	10.0		
SPACE-17-TEC-2019: <b>Access to space</b>	RIA		9.0	

### Space technologies, science and exploration

Topics	Type of Action	Indicative budget (€ million)		
		2018	2019	2020
SPACE-18-TEC-2019-2020: <b>In-orbit validation/demonstration – Mission integration and implementation</b>	RIA		20.0	18.0
SPACE-27-TEC-2020: <b>SRC – Space Robotics Technologies</b>	RIA			9.0
SPACE-28-TEC-2020: <b>SRC – In-Space electrical propulsion and station keeping</b>	RIA			24.0
SPACE-29-TEC-2020: <b>Satellite communication technologies</b>	RIA			9.0
SPACE-20-SCI-2018: <b>Scientific instrumentation and technologies for exploration</b>	RIA	10.0		
SPACE-30-SCI-2020: <b>Scientific data exploitation</b>	RIA			9.0

## Call – Space 2018-2020

### Space technologies, science and exploration

Topics	Type of Action	Indicative budget (€ million)		
		2018	2019	2020
SPACE-10-TEC-2018-2019-2020: <b>Technologies for European non-dependence and competitiveness</b>	<b>RIA</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>
SPACE-11-TEC-2018: <b>Generic space technologies</b>	<b>RIA</b>	<b>11.0</b>		
SPACE-12-TEC-2018: <b>SRC – Space Robotics Technologies</b>	<b>RIA</b>	<b>18.0</b>		
SPACE-13-TEC-2019: <b>SRC – In-Space electrical propulsion and station keeping</b>	<b>RIA</b>		<b>10.0</b>	
SPACE-14-TEC-2018-2019: <b>Earth observation technologies</b>	<b>RIA</b>	<b>8.0</b>	<b>8.0</b>	
SPACE-15-TEC-2018: <b>Satellite communication technologies</b>	<b>RIA</b>	<b>9.0</b>		
SPACE-16-TEC-2018: <b>Access to space</b>	<b>RIA</b>	<b>10.0</b>		
SPACE-17-TEC-2019: <b>Access to space</b>	<b>RIA</b>		<b>9.0</b>	

## Call – Space 2018-2020

### Space technologies, science and exploration

Topics	Type of Action	Indicative budget (€ million)		
		2018	2019	2020
SPACE-18-TEC-2019-2020: <b>In-orbit validation/demonstration – Mission integration and implementation</b>	<b>RIA</b>		<b>20.0</b>	<b>18.0</b>
SPACE-27-TEC-2020: <b>SRC – Space Robotics Technologies</b>	<b>RIA</b>			<b>9.0</b>
SPACE-28-TEC-2020: <b>SRC – In-Space electrical propulsion and station keeping</b>	<b>RIA</b>			<b>24.0</b>
SPACE-29-TEC-2020: <b>Satellite communication technologies</b>	<b>RIA</b>			<b>9.0</b>
SPACE-20-SCI-2018: <b>Scientific instrumentation and technologies for exploration</b>	<b>RIA</b>	<b>10.0</b>		
SPACE-30-SCI-2020: <b>Scientific data exploitation</b>	<b>RIA</b>			<b>9.0</b>

## Other actions for 2018-2020

### Other actions for 2018-2020 (sub-set)

Other actions	Type of Action	Indicative budget (€ million)		
		2018	2019	2020
Activity 1 – <b>ESA engineering support</b>	<b>Grant to Identified Beneficiary</b>	<b>4.0</b>		<b>2.0</b>
Activity 3 – <b>Programmatic Support Actions for the Strategic Research Clusters (Space Robotics; Electric Propulsion)</b>	<b>2 Grants to Identified Beneficiary</b>		<b>6.0</b>	
Activity 4 – <b>IOD/IOV – launch services</b>	<b>Public Procurement</b>	<b>9.0</b>	<b>10.0</b>	<b>20.0</b>

# Safe and secure environment



No call in 2018;

Budget 2018-2020: 85.6 M€



## Call – Space 2018-2020 and Other actions for 2018-2020 (sub-set)

### Secure and safe space environment

Topics	Type of Action			
		2018	2019	2020
SPACE-21-SEC-2020: <b>Exploring concepts for space traffic management</b>	<b>CSA</b>			<b>2.0</b>
SPACE-22-SEC-2019: <b>Space Weather</b>	<b>RIA</b>		<b>9.0</b>	
SPACE-23-SEC-2019: <b>NEO</b>	<b>RIA</b>			<b>4.0</b>

### Other actions for 2018-2020 (sub-set)

Other actions	Type of Action			
		2018	2019	2020
Activity 5 – <b>Space surveillance and tracking SST</b>	<b>Grant to Identified beneficiary</b>	<b>1.8</b>	<b>1.9</b>	<b>1.9</b>
Activity 6 – <b>Improving the Performance of SST at European Level</b>	<b>SGA - RIA</b>	<b>15.0</b>	<b>20.0</b>	<b>30.0</b>

<http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32014D0541&from=EN>

27.5.2014	EN	Official Journal of the European Union	L 158/227
<h2>DECISIONS</h2>			
<p><b>DECISION No 541/2014/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL</b> <b>of 16 April 2014</b> <b>establishing a Framework for Space Surveillance and Tracking Support</b></p>			
<p>THE EUROPEAN PARLIAMENT AND THE COUNCIL OF THE EUROPEAN UNION,</p>			

... Council recalled that space assets have become indispensable for our economy and that their security must be ensured. It underlined the 'need for Europe [...] **to develop a European capability for the monitoring and surveillance of its space infrastructure and space debris**, initially based on existing national and European assets...

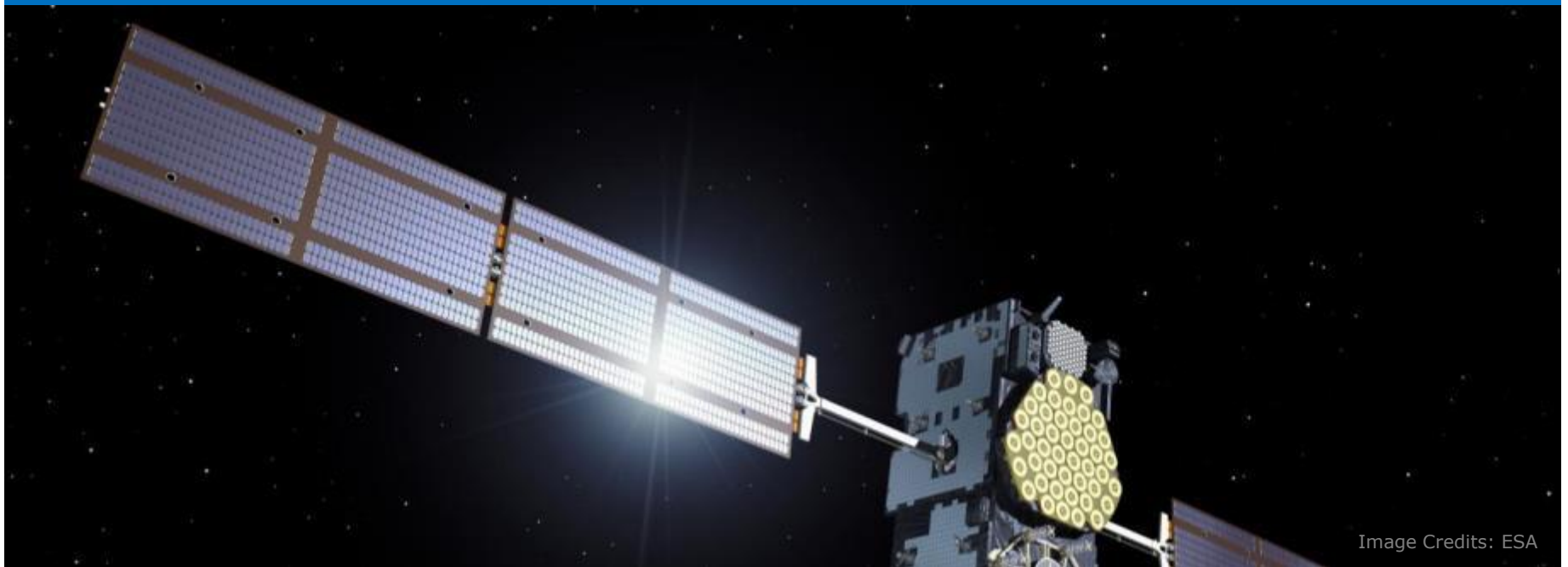


Two strands of SST activities funded by Horizon 2020:

- **SST services:** activities within the SST support framework, which relate to the networking and using of existing national SST assets (**activity**)  
These activities are funded by four budget lines (H2020/Space, H2020/Secure societies, Copernicus, GNSS)
- **SST evolution:** activities outside the SST support framework, which relate to the upgrade of existing and development of new SST sensors (**activity**)

These activities are funded exclusively by H2020/space

# Satellite Navigation – Galileo and EGNOS



No call in 2018;  
Budget 2018-2020: 123 M€

## Call - EGNSS market uptake 2019-2020 & Other actions for 2018-2020

### Call – EGNSS market uptake 2019-2020

Topics	Type of Action			
		2018	2019	2020
SPACE-EGNSS-1-2019-2020: <b>EGNSS applications fostering green, safe and smart mobility</b>	IA		10.0	10.0
SPACE-EGNSS-2-2019-2020: <b>EGNSS applications fostering digitisation</b>	IA		4.0	5.0
SPACE-EGNSS-3-2019-2020: <b>EGNSS applications fostering societal resilience and protecting the environment</b>	IA		4.0	5.0
SPACE-EGNSS-4-2019: <b>Awareness raising and capacity building</b>	CSA		2.0	

### Other actions for 2018-2020 (sub-set)

Other actions	Type of Action			
		2018	2019	2020
Activity 7 – <b>Galileo Evolution, Mission and Service related R&amp;D activities</b>	Public Procurement		2.6	1.8
Activity 8 – <b>EGNOS Mission and Service related R&amp;D activities</b>	Public Procurement		0.4	0.2
Activity 9 – <b>GNSS evolution, infrastructure-related R&amp;D activities</b>	DA - ESA	36.0	31.0	10.0
Activity 13 – <b>Horizon 2020 project monitoring and audits EGNSS</b>	Expert Contracts		0.5	0.5

## Miscellaneous

### Miscellaneous

Other actions	Type of Action	Indicative budget (€ million)		
		2018	2019	2020
Activity 10 – <b>Cooperation among NCPs</b>	<b>Grant to Identified beneficiary</b>	<b>0.6</b>		
Activity 11 – <b>Studies and Communication</b>	<b>Grant to Identified Beneficiary</b>	<b>1.5</b>	<b>0.5</b>	<b>1.0</b>
Activity 12 – <b>Horizon 2020 project monitoring</b>	<b>Public Procurement</b>	<b>1.16</b>	<b>0.96</b>	<b>1.28</b>



Themes	Opening dates	Deadlines
EO, BIZ, TEC, SCI	31 October 2017	6 March 2018
EO, BIZ, TEC, SEC, EGNSS	31 October 2018	12 March 2019
EO, BIZ, TEC, SCI, SEC, EGNSS	TBD	TBD

The associated **guidance documents** will be available at:

<http://ec.europa.eu/growth/sectors/space/research/horizon-2020/> And on the participant portal



# SME Instrument and Fast Track to Innovation

THE FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

HORIZON 2020

The graphic for Horizon 2020 features the word "HORIZON" in large, white, sans-serif capital letters, with a small globe of the Earth as the letter "O". To the right of "HORIZON" is the year "2020" in the same font. The background is a vibrant blue with a glowing horizon line and radiating light beams, suggesting a futuristic or scientific theme.



## SME Instrument phases



## Phase 1 - Concept & Feasibility Assessment



- **€50.000** in EU funding
- **Feasibility study**
- **Initial 10 page business proposal to be drafted**
- **6 months in duration**

## Phase 2 – Innovation Project



- Between **€0.5M & €2.5M** of EU funding
- Develop project through **innovation strategy**
- Draft a more developed **30 pages business plan**
- **1-2 years** in duration

## Phase 3 – «Commercialisation»



- **No stand-alone phase!**
- **No direct funding**
- **Business coaching**
- **Facilitate access to risk finance**
- **Additional support & networking opportunities**
- **SMEs “Business Club”**

# SME instrument: what's new

- **Fully bottom-up**, no predefined topics, so innovative projects that cut across sectors/technologies become eligible for support
- **Single budget line**, maintaining budgetary contributions from Societal challenge and LEIT
- **Larger pool of evaluators** with relevant technological/scientific expertise as well as financial/commercial backgrounds
- **Evaluation criteria phase 2 revised** to better target the scaling up of SMEs with the greatest potential for breakthrough, market-creating innovation (business capacity, international growth ambition)
- **Interviews** in phase 2
- **Coaching** for SMEs
- **Mentoring** introduced
- **Monitoring** of thematic coverage



## Fast Track to Innovation Pilot

THE ULTIMATE BOOST FOR OUTSTANDING BUSINESS INNOVATORS WITH A NEED FOR SPEED...

### PREPARE YOUR PROPOSAL

Build your industry-intensive consortium\*  
minimum 3 partners - maximum 5 partners  
(all based in the EU and / or in Horizon 2020 associated countries)



Outstanding Business Innovation Concept  
(high-readiness level / TRL 6, meaning demonstrated in a relevant environment)

Continuous open call until end 2016

6 months time-to-grant

### DEVELOP YOUR INNOVATION

Receive an EU grant of EUR 1 million to 3 million  
(70% of funding, 100% of funding for non-profit entities)



12-24 months for implementation

### HIT THE MARKET!

Start your commercial activities



Market-ready result  
(finished product, service, process/ TRL 9)

At most 36 months from grant to market

\*In a consortium with 3 or 4 partners, at least 2 should be industry, and in a consortium with 5 partners, at least 3; alternatively at least 60% of the project budget should be allocated to industry (i.e. private for profit entities)

... AND EAGER TO COMPETE ON GLOBAL MARKETS...!

### ACTIVITIES SUPPORTED

Systems validation in real working conditions – Testing – Piloting – Business model validation – Standard setting – Pre-normative research – EU quality label

## SME Instrument and Fast Track to Innovation: summary

WP 2018/2020			
	2018	2019	2020
Call for proposals	Indicative budget (€ million)	Indicative budget (€ million)	Indicative budget (€ million)
<b>SME instrument</b>	<b>Indicative*: €57.93 million</b>		
<b>Fast Track to Innovation</b>	<b>3.37</b>	<b>3.37</b>	<b>3.37</b>

*\* While these amounts are indicatively dedicated to the respective domain concerned, the SME Instrument will operate bottom-up and its budget will, as a whole, support firms developing the breakthrough, market-creating innovations that can occur, in particular, at the intersection between different technologies, industry sectors and scientific disciplines.*



# HORIZON 2020

Thank you  
for your attention

## **Space research and guidance documents**

<http://ec.europa.eu/growth/sectors/space/research/horizon-2020/>

## **Published work programme 2018-2020**

<http://ec.europa.eu/research/participants/portal/>