

# 3 - Horizon 2020 Space Work Programme 2017



## EGNSS

Galileo & EGNOS applications and infrastructure

### Calls for proposals:

- EGNSS applications

### Other actions:

- Evolution of EGNSS infrastructure, mission and services

## EO

Earth Observation applications and services

### Calls for proposals:

- EO downstream applications
- EO "big data" shift
- Preparation for a European capacity to monitor CO2 anthropogenic emissions

## COMPET

Competitiveness of the European Space sector: Technology and Science (incl. Space Weather)

### Calls for proposals:

- Critical space technologies
- Strategic research clusters
- EO & SatCom technologies
- Science and Exploration
- **Space Weather**
- Space Portal
- Technology transfer

### Other actions:

- ESA Engineering support
- Horizon prize on low-cost access to space

## SST

Space Surveillance and Tracking support framework

### Other actions:

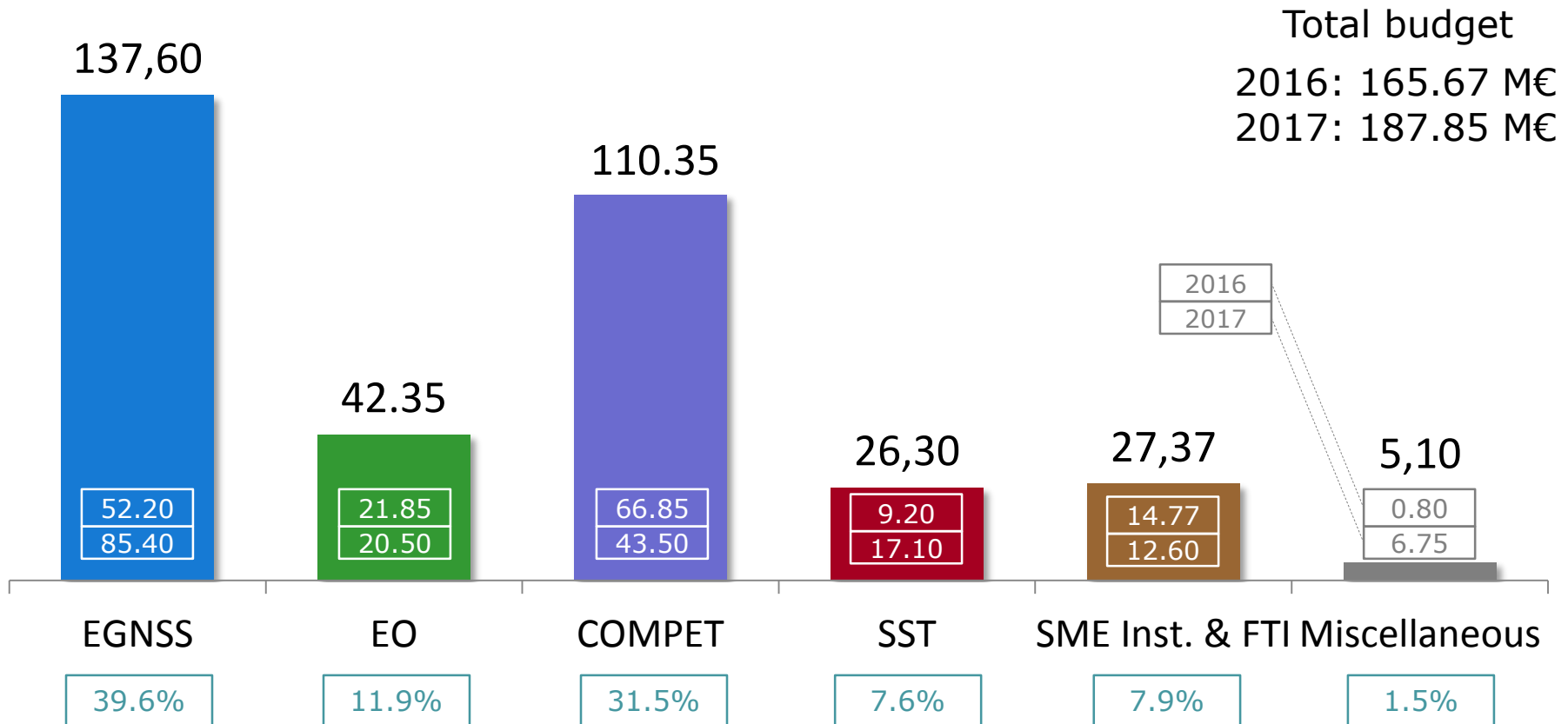
- Contribution to the SST support framework
- Improving the performance of SST at European level

SME Instrument

Fast Track to Innovation 'pilot'



## LEIT-Space 2016-2017 WP **indicative budget** (figures in M€) Calls for proposals + "Other actions"





# COMPET-4-2017

## Scientific data exploitation

Support the data exploitation of European missions and instruments, of all acquired and available data provided by space missions in their operative, post-operative or data exploitation phase focusing on astrophysics (including exoplanets), heliophysics and the Solar System exploration, including the Moon.

*Recommened project size*  
*Indicative budget*  
*Type of action*

1.5 M€

6 M€

**Research and  
Innovation  
action**

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# COMPET-5-2017

## Space Weather

Exploratory work studying space weather with a view to enhancing the understanding of space weather and its impact.

Proposals can cover the full range of space weather phenomena from the solar cycle, flares and coronal mass ejections to the effects of the solar wind in the near-earth environment and the evolution in between.

This activity shall address space weather and its effects, impacts and mitigation techniques with application to aerospace and ground systems.

*Recommened project size*  
*Indicative budget*  
*Type of action*

1 to 1.5 M€

**3 M€**

**Research and  
Innovation  
action**

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# COMPET-6-2017

## Space portal

The call has two main incremental goals:

1. Implementation of an effective space web portal for Europe, able to point to relevant resources as required and depending on the type of queries.
2. Provide a repository of all relevant information regarding FP6, FP7, Horizon 2020 funded space projects (including public deliverables, data, software tools where possible).

*Recommened project size*  
*Indicative budget*  
*Type of action*

0.5 M€

0.5 M€

**Coordination and  
support action**

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## Competitiveness of the European Space Sector –Technology and Science: summary

### WP 2016

Call for proposals	Indicative budget (M€)
COMPET-1-2016: <b>Technologies for European non-dependence and competitiveness</b>	<b>14.85</b>
COMPET-2-2016: <b>Maturing Satellite Communication technologies</b>	<b>7.0</b>
COMPET-3-2016: <b>SRC – In-Space electrical propulsion and station keeping</b>	<b>23.0</b>
COMPET-4-2016: <b>SRC – Space Robotics Technologies</b>	<b>18.0</b>
COMPET-5-2017: <b>Scientific instrumentation</b>	<b>3.0</b>
<b>Total COMPET-2016</b>	<b>65.85</b>
Other actions	Indicative budget (€ million)
Activity 7 - <b>Engineering support by ESA</b>	<b>1.0</b>

### WP 2017

Call for proposals	Indicative budget (M€)
COMPET-1-2017: <b>Technologies for European non-dependence and competitiveness</b>	<b>15.0</b>
COMPET-2-2017: <b>Competitiveness in Earth observation mission technologies</b>	<b>7.0</b>
COMPET-3-2017: <b>High speed data chain</b>	<b>10.0</b>
COMPET-4-2017: <b>Scientific data exploitation</b>	<b>6.0</b>
COMPET-5-2017: <b>Space Weather</b>	<b>3.0</b>
COMPET-5-2017: <b>Space portal</b>	<b>0.5</b>
COMPET-6-2017: <b>Technology transfer and business generators</b>	<b>2.0</b>
<b>Total COMPET-2017</b>	<b>41.5</b>
Other actions	Indicative budget (€ million)
Activity 11 - <b>Horizon Prize for low cost access to space (4M€ prize from 2020 budget)</b>	-
Activity 18 - <b>Engineering support by ESA</b>	<b>1.0</b>



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## Horizon 2020 Space projects

- [H2020 Space Projects at REA webpage](#)
- [H2020 Space Projects in the GSA webpage](#)

2014

### Earth observation (EO)

[BACI](#) (149 kB)  
[EGSIEM](#) (105 kB)  
[EUSTACE](#) (104 kB)  
[FIDUCEO](#) (108 kB)  
[GAIA-CLIM](#) (110 kB)  
[URBANFLUXES](#) (40 kB)

### Protection of European assets in and from Space (PROTEC)

[NEOShield-2](#) (96 kB)  
[FLARECAST](#) (30 kB)  
[PROGRESS](#) (30 kB)

### Competitiveness of European Space Technology (COMPET)

[COSMOS2020](#) (101 kB)  
[EDEN ISS](#) (108 kB)  
[EPIC](#) (96 kB)  
[EURO-CARES](#) (108 kB)  
[EUSPACE-AWE](#) (97 kB)  
[GOTOFLY](#) (94 kB)  
[GRAIL](#) (38 kB)  
[HYPROGEO](#) (45 kB)  
[INVEST](#) (37 kB)  
[IODISPlay](#) (100 kB)  
[IRENA](#) (96 kB)  
[Odysseus II](#) (32 kB)  
[PAMPA](#) (37 kB)  
[PEGASUS](#) (38 kB)  
[PERASPERA](#) (94 kB)  
[PHySIS](#) (38 kB)  
[PLUGIN](#) (36 kB)  
[R2RAM](#) (100 kB)  
[REACT](#) (40 kB)  
[Rheform](#) (40 kB)  
[SCREEN](#) (38 kB)  
[TCLS ARM FOR SPACE](#) (38 kB)  
[TIME SCALE](#) (94 kB)  
[UPWARDS](#) (96 kB)

### Other actions:

[MACC-III](#) (127 kB), [MyOcean-FO](#) (77 kB), [PASS](#) (95 kB)

Space



# Horizon 2020 Space 2016-2017 'calls'



## Horizon 2020 Participants Portal:

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

RESEARCH & INNOVATION  
Participant Portal

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COSME

3rd Health Programme

Consumer Programme

FP7 & CIP Programmes 2007-2013

Calls

Other Funding Opportunities

### Calls for Proposals

Horizon 2020

Advanced search for topics  
Calls for tenders on TED

- Advanced materials
- Biotechnology
- Advanced manufacturing and processing
- Space
- Access to risk finance
- Innovation in SMEs
- Societal Challenges
- Health, demographic change and wellbeing

Sort by Call title Call identifier Publication date Filter a call FILTER

<b>Industrial Leadership</b> Applications in Satellite Navigation-Galileo 2014-2015 H2020-Galileo-GSA-2014-2015 Publication date: 11-12-2013	<b>Industrial Leadership</b> Horizon 2020 dedicated SME Instrument Phase 1 and 2, 2014-2015 H2020-SMEInst-2014-2015 Publication date: 11-12-2013	<b>Industrial Leadership</b> H2020-LEIT-Space-Competitiveness of the European Space Sector-2014 H2020-COMPET-2014 Publication date: 11-12-2013
<b>Industrial Leadership</b> H2020-LEIT-Space-Competitiveness of the European Space Sector-2015 H2020-COMPET-2015 Publication date: 11-12-2013	<b>Industrial Leadership</b> Earth Observation-2014-LEIT SPACE H2020-EO-2014 Publication date: 11-12-2013	<b>Industrial Leadership</b> Earth Observation-2015-LEIT SPACE H2020-EO-2015 Publication date: 11-12-2013
<b>Industrial Leadership</b> Protection of European assets in and from Space-2014-LEIT SPACE H2020-PROTEC-2014 Publication date: 11-12-2013	<b>Industrial Leadership</b> Protection of European assets in and from Space-2015-LEIT SPACE H2020-PROTEC-2015 Publication date: 11-12-2013	

H2020 Space  
Work Programme

Calls for  
proposals



Calls	Opening dates	Deadlines
EO-2016 COMPET-2016	10 November 2015	3 March 2016
GALILEO-2017 EO-2017 COMPET-2017	8 November 2016	1 March 2017



# 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 2016-2017**

[http://ec.europa.eu/research/participants/data/ref/h2020/wp/2016\\_2017/main/h2020-wp1617-leit-space\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/wp/2016_2017/main/h2020-wp1617-leit-space_en.pdf)