

Space

THE SPACE THEME OF THE HORIZON 2020 PROGRAMME DEVELOPS THE COMPETITIVENESS OF EUROPEAN SPACE INDUSTRY AND APPLICATION IS SATELLITE NAVIGATION (GALILEO) AND EARTH OBSERVATION (COPERNICUS). THE SPACE THEME HAS A BUDGET OF 1.5 BILLION EURO.

Calls 2018, 2019, 2020

The call themes are

- Applications in Satellite Navigation (Galileo)
- Earth Observation - satellite remote sensing applications and technologies
- Competitiveness of the European Space Sector: Technology, Security, Science

Call budgets 100-120 M€ annually plus 20 M€ for Galileo Calls in 2019 and 2020.

The 2018 call for proposals opens 1 November 2017 and closes 1 March 2018. Later years in similar fashion.

Special conditions

Participation of third countries and international organizations is welcome in all other topics except critical technologies for spacecraft.

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Online Sources of Information

- European Commission DG GROW Space http://ec.europa.eu/growth/sectors/space/index_en.htm
- Horizon 2020 Space <http://ec.europa.eu/programmes/horizon2020/en/h2020-section/space>
- Horizon 2020 Participant Portal
<http://ec.europa.eu/research/participants/portal/desktop/en/home.html>
- EU Research and Innovation Programmes <http://www.tekes.eu>
- Projects of FP6, FP7, H2020: http://cordis.europa.eu/projects/home_en.html
- Cordis Partner Search: <http://cordis.europa.eu/partners>

Earth observation

DT-SPACE-01-EO-2018-2020: Copernicus market uptake

LC-SPACE-02-EO-2018: Copernicus evolution – Mission exploitation concepts

LC-SPACE-03-EO-2018: Copernicus evolution - preparing for the next generation of Copernicus

Marine Service ocean models

LC-SPACE-04-EO-2019-2020: Copernicus evolution – Research activities in support of cross-cutting applications between Copernicus services

LC-SPACE-05-EO-2019: Copernicus evolution – Research activities in support to a European operational monitoring system for fossil CO2 emissions

DT-SPACE-06-EO-2019: International Cooperation Copernicus – Designing EO downstream applications with international partners

Space business, entrepreneurship, outreach and education

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

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

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

Space technologies, science and exploration

SPACE-10-TEC-2018-2020: Technologies for European non-dependence and competitiveness

SPACE-11-TEC-2018: Generic space technologies

SPACE-12-TEC-2018: SRC – Space robotics technologies

LC-SPACE-14-TEC-2018-2019: Earth observation technologies

SPACE-15-TEC-2018: Satellite communication technologies

SPACE-16-TEC-2018: Access to space

SPACE-20-SCI-2018: Scientific instrumentation and technologies enabling space science and exploration

SPACE-13-TEC-2019: SRC – In-Space electrical propulsion and station keeping

SPACE-17-TEC-2019: Access to space

SPACE-18-TEC-2019-2020: In-orbit validation/demonstration – Mission design, integration and implementation

Secure and safe space environment

SU-SPACE-22-SEC-2019: Space Weather

Call - EGNSS market uptake 2019-2020

LC-SPACE-EGNSS-1-2019-2020: EGNSS applications fostering green, safe and smart mobility

DT-SPACE-EGNSS-2-2019-2020: EGNSS applications fostering digitisation

SU-SPACE-EGNSS-3-2019-2020: EGNSS applications fostering societal resilience and protecting the environment

SPACE-EGNSS-4-2019: Awareness Raising and capacity building

Other actions (2018-2020). e.g.

- European Innovation Council (EIC) prize "Low cost Space Launch"
- InnovFin Space Equity Pilot (ISEP)
- In-orbit demonstration/validation – launch services

Similar topics will be repeated in Call 2020.