

# Horizon Europe 2021 Call factsheet



## Future space ecosystems: on-orbit operations, new system concepts

Automation, robotics and artificial intelligence (AI) especially in combination with standardisation, modularisation and digitalisation are key enablers, improving space systems and satellites' flexibility and cost-efficiency, increasing sustainability and accessibility, introducing mass-customisation and cooperative design as well as simplifying operations.

### Scope:

Address the following areas:

- R&I on new scalable satellite platform concepts and building blocks increasing the degree of satellite modularisation;
- R&I on new on-orbit services concepts concentrating on a next generation of potential business cases;
- R&I to identify, develop and implement AI and industry 4.0 means.

### Topics:

- A future space ecosystem, fostering the industrialisation and business in space as well as supporting scientifically meaningful missions;
- Game-changing technologies, tools and processes enhancing on-orbit servicing applications and contribute to the protection of the in-space future ecosystem;
- A paradigm shift towards sustainable, highly automated, flexible and economical viable space infrastructure.



The indicative budget for this category is EUR 6.00 (Million).

### Reference:

**HORIZON-CL4-2021-SPACE-01-12**

Research and Innovation

Opening: 28 Oct 2021

Deadline: 16 Feb 2022

Call overview, Produced 04/10/2021. Visit our website [www.opencalls.space](http://www.opencalls.space)

### Countries



all

### Technology



On-orbit services, Ai, Robotics,  
Automation, ICT

### Activities



R&I, Modularisation, Digitalisation

### Contact



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