

Horizon Europe 2021 Call factsheet



Reusability for European strategic space launchers – technologies and operation maturation including flight test demonstration

R&I will focus on reusability concepts including required technologies that have a strong potential for cost reduction, starting with the recovery of the most expensive components such as first stage.

Scope:

- Low cost GNC and avionics;
- Manoeuvring control devices;
- HMS (Health Monitoring System), propellant management;
- Aerodynamic devices;
- Descent and landing/recovery systems, including low latency, closed loop communication systems for landing;
- On-ground servicing processes;
- Safety critical processes before launch and after landing.

Topics:

- Contribution to the overarching objective of launch cost/price reduction by 50% by 2030;
- Innovation acceleration of enabling technologies;
- Matured technologies up to TRL5/6, integration of system tests vehicle, on-ground and low altitude system tests by 2023 and contribution to the preparation of suborbital system tests potentially in 2025;
- Cost reduction investigation and system tests.



The indicative budget for this category is EUR 39.00 (Million).

Reference:

HORIZON-CL4-2021-SPACE-01-21

Research and Innovation

Opening: 28 Oct 2021

Deadline: 16 Feb 2022

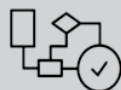
Call overview, Produced 05/10/2021. Visit our website www.opencalls.space

Countries



EU member states, Iceland,
Norway

Technology



TRL 5/6 , GNC, Avionics

Activities



R&I,

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