

Horizon Europe 2021 Call factsheet



Low cost high thrust propulsion for European strategic space launchers – technologies maturation including ground tests

The propulsion systems represent a significant part of launch system costs. It is necessary to mature new or optimised low cost effective, high performance and green propulsion concepts, technologies and propellants for high thrust engines.

Scope:

- Low cost propulsion;
- Throttability;
- Reduced number of parts with extensive application of Additive manufacturing, or new composite technologies;
- Maintenance/overhaul;
- Associated fluidics.

Topics:

- Contribution to the overarching objective of launch cost/price reduction by 50% by 2030;
- Innovation acceleration of enabling technologies;
- Identification of mature technologies at TRL 3-4 for cost-reduction possibilities in the current European launchers;
- Matured technologies up to TRL 5-6 by 2023/24, prototyping and on ground tests at engine subsystem and system level by 2025/26;
- Cost reduction investigation and demonstration.



The indicative budget for this category is EUR 19.80 (Million).

Reference:

HORIZON-CL4-2021-SPACE-01-22

Research and Innovation

Opening: 28 Oct 2021

Deadline: 16 Feb 2022

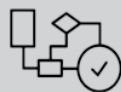
Call overview, Produced 04/10/2021. Visit our website www.opencalls.space

Countries



EU member states, Iceland,
Norway

Technology



Propulsion technologies, TRL
3-4, TRL 5-6, additive
manufacturing, Fluidics,

Activities



Optimisation, Innovation
management, Cost reduction

Contact



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