





An increased level of ambition in Space Exploration for Europe?

Why? What? How?

ACT NOW, ACT DIFFERENTLY

Space Summit Resolution



... pave the way for Europe's technological, scientific and commercial participation in a post-ISS orbital economy, through the competitive development of a low Earth orbit cargo return service,

[...] contributing as one of the possible solutions to the parallel preparation towards a potential future crew vehicle and further destinations;

"Resolution on Lifting Europe's Ambitions for a Green and Sustainable Future, Access to Space and Space Exploration", adopted on 6 November 2022 by the ESA Council, meeting at ministerial level



DG Proposal



Objective 1:

developing a LEO cargo return service to enable ESA's participation in the post-ISS LEO ecosystem and economy,

requiring a demonstration mission with a target date of 2028



DG Proposal



Objective 2:

enabling an affordable and swift development of a

potential future LEO crew vehicle, should it be decided by

Member States at a later stage

Objective 3:

enabling an affordable and fast development of

potential future cislunar cargo and crew vehicles,

should they be decided by Member States at a later stage, by

maximising commonalities and synergies with the LEO vehicles.







Phase 1 (June 2024 – June 2026)

- Goal: advance the development to a stage that enables the execution of the demonstration mission by the target date.
- ESA co-funding: 75 Million total (3 contracts)

Phase 2 (June 2026 – execution of the demonstration mission)

Phase 2 is subject to decisions, approval and appropriation of funds at the ESA Council at Ministerial Level in 2025.

Phases (service)



Following a successful demonstration mission, should ESA receive the mandate to do so,

the Agency will procure recurring services that will serve as barter elements to enable astronaut flights and utilization in the post-ISS LEO ecosystem

(subject to future decisions by the ESA Council at Ministerial level)



High level requirements



Demonstrate end-to-end service of pressurized cargo delivery to - and return from - the ISS, including powered cargo.

Industry retains full design authority and is free to define performance targets for a competitive and profitable service to both institutional and private customers.

venicle and associated infrastructure/operations are compatible with evolution to crew transportation to LEO and cargo return from cislunar space



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Timeline



- Dec 2023: issue of the Fixed Call for Proposals
- 8 Jan 2024: industry briefing
- □ 29 Feb 2024: deadline to submit proposals
- Mar-Apr 2024: proposal evaluations, negotiations, audits.
- May 2024: Contracts Signature