

ESA DIRECTORATE OF SCIENCE

BRIEFING MEETING

11th of December 2024 Call for Medium and Fast missions Exploratory Call for mini-Fast proposals in the ESA Science Programme

Protocol for the Briefing meeting



- The session is being **recorded** and will be available in the coming days
- Due to the size of the audience, the attendee cameras and microphones will be turned off
- Questions: Please ask your questions in the Q&A window. Due to the expected number of questions, the moderators may combine several questions into one
- An FAQ will be published with the call



Programme

Moderators: Lisa Lacroix, Ricarda Leske

14:00-14:15 – Introduction (*Luigi Colangeli*)

14:15-15:00 - Context, clarifications, and expectations (Frederic Safa)

- Call for Medium-class mission opportunity (M8)
- Call for Fast-class mission opportunity (F3)
- Exploratory Call for mini-Fast proposals

15:00-15:15 – Scientific Assessment (Paul McNamara)

15:15-17:00 – Questions and Answers









Call for Medium and Fast missions and Exploratory Call for mini-Fast proposals

in the ESA Science Programme

https://www.cosmos.esa.int/web/call-for-missions-2025/briefing-meeting

Dr. Luigi Colangeli

Director and Programme Strategy Support Office

Directorate of Science





Briefing meeting

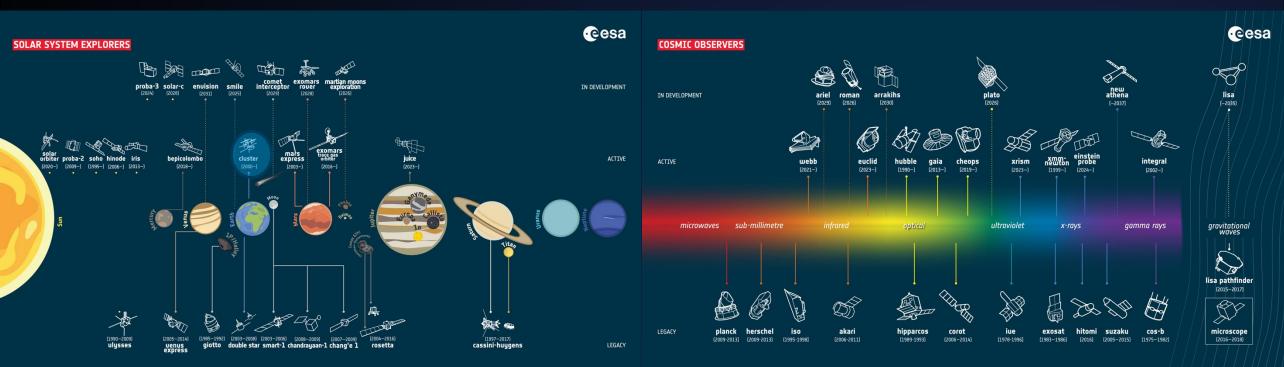
Goal: to inform the community of the upcoming calls and provide information on structure and content



ESA Scientific Programme Fleet



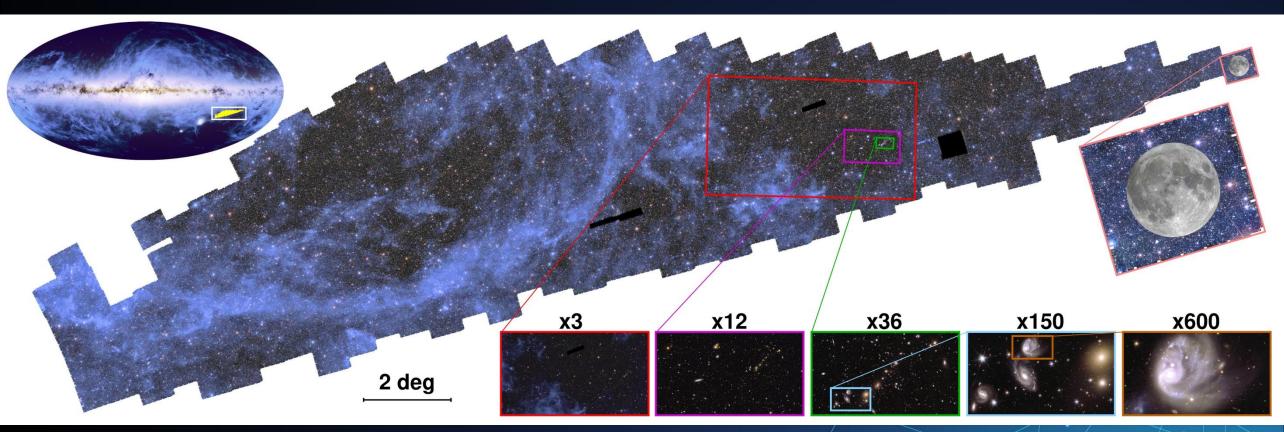
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18 missions in operation; 13 missions in preparation; 23 in legacy phase ... standing on the shoulders of giants! ... Several missions done in international cooperation

The present of ESA's Science Programme ESA's Euclid new results delivered







BepiColombo completes 4th and 5th Mercury flybys with closest approaches 165 km and 37 626 km above the surface on 4 September & 1 December 2024

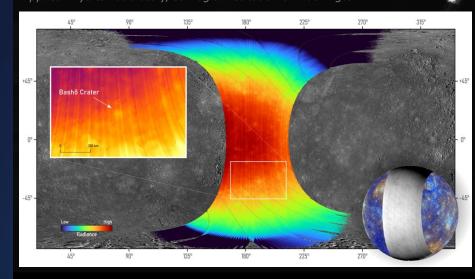
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Mercury in mid-infrared light first measurement by the MERTIS instrument MERTIS/DLR/University of Münster & NASA/Johns Hopkins University Applied Physics Laboratory/Carnegie Institution of Washington



BepiColombo, Monitoring Camera 2

Cluster completes on 8 September its 24 years long mission with a secure Earth atmosphere re-entry





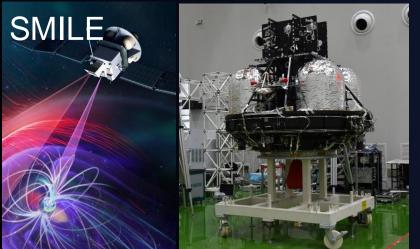
Projects in Development



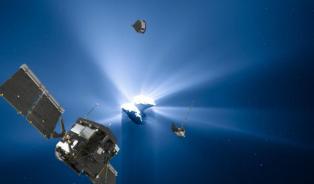








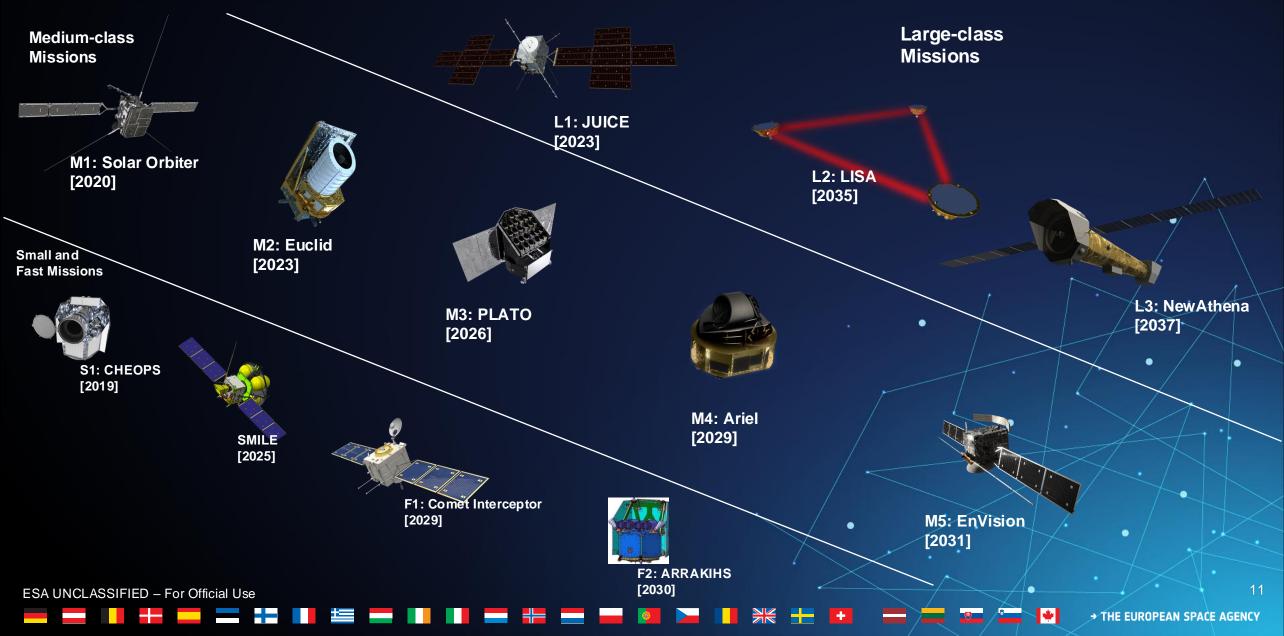
Comet Interceptor





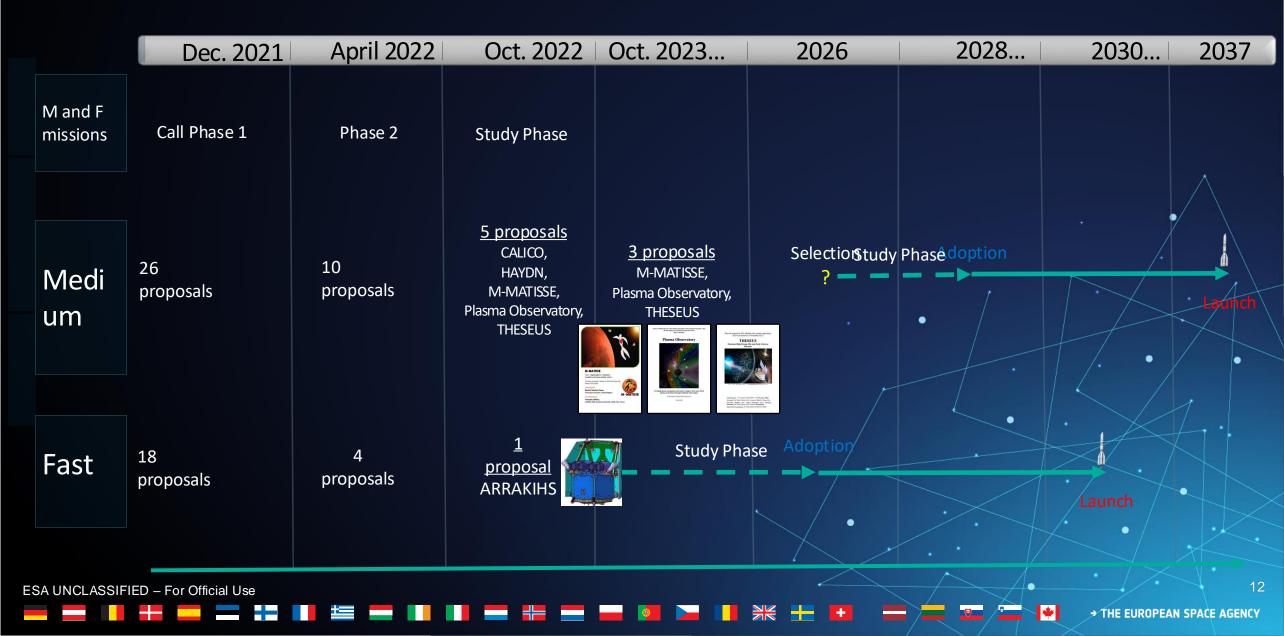
Completing the Cosmic Vision



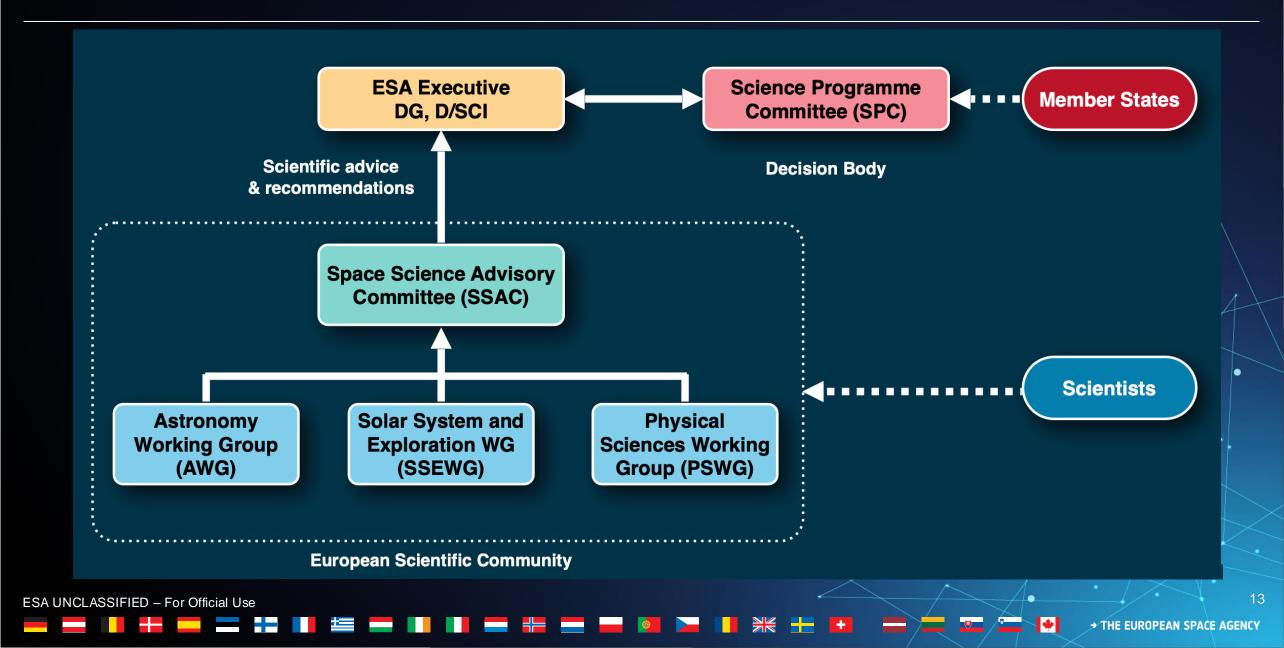


Bottom-up selection: unique feature to achieve excellence of Science missions (M7 and F2 cases)









The Science Programme – Goals



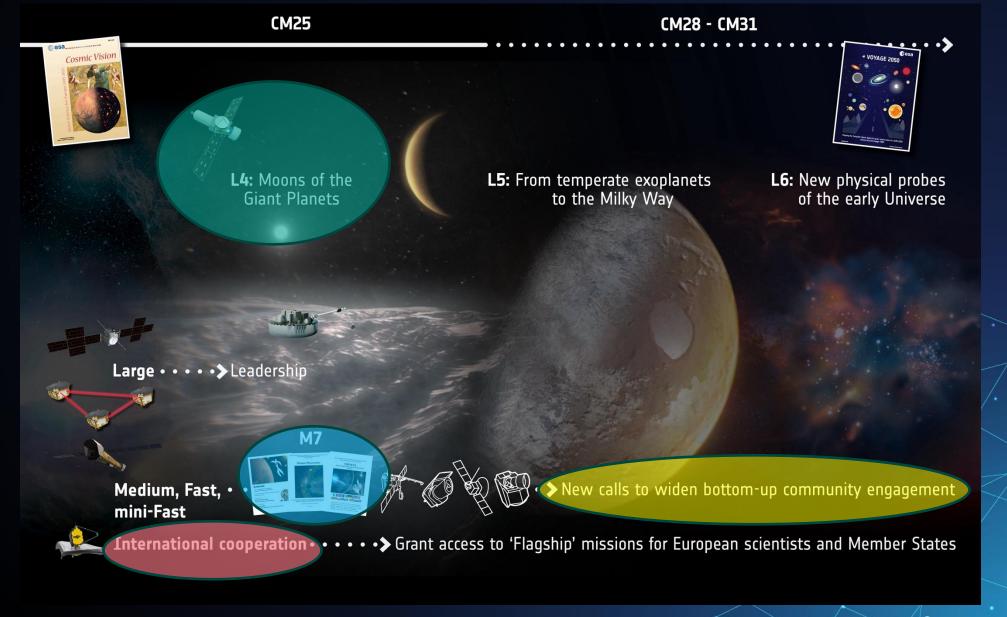
- Goals
 - Maintain and increase **leadership** in key strategic scientific domains
 - Allow <u>cadence</u> of different classes of missions to respond to appetite of scientific community and to different interests of Member States
 - Allow <u>industries</u> to be engaged in new challenging studies and developments to stimulate competitiveness generated by competition
 - Maintain <u>diversity</u> in science themes and technological domains offering a portfolio of opportunities to all stakeholders in Member States
 - Offer attractive opportunities to **STEM students and young generations** for training/growth
 - Keep flexibility in the Programme (key to respond to fast evolving landscapes and mitigate risks)
 - Position ESA in a strong role for **partnership with international agencies**
- The Cosmic Vision plan is going to be completed with ARRAKIHS and NewAthena adoptions in 2026-2027
- We need to start "now" planning for the 2030's-2040's (the Voyage 2050 era)

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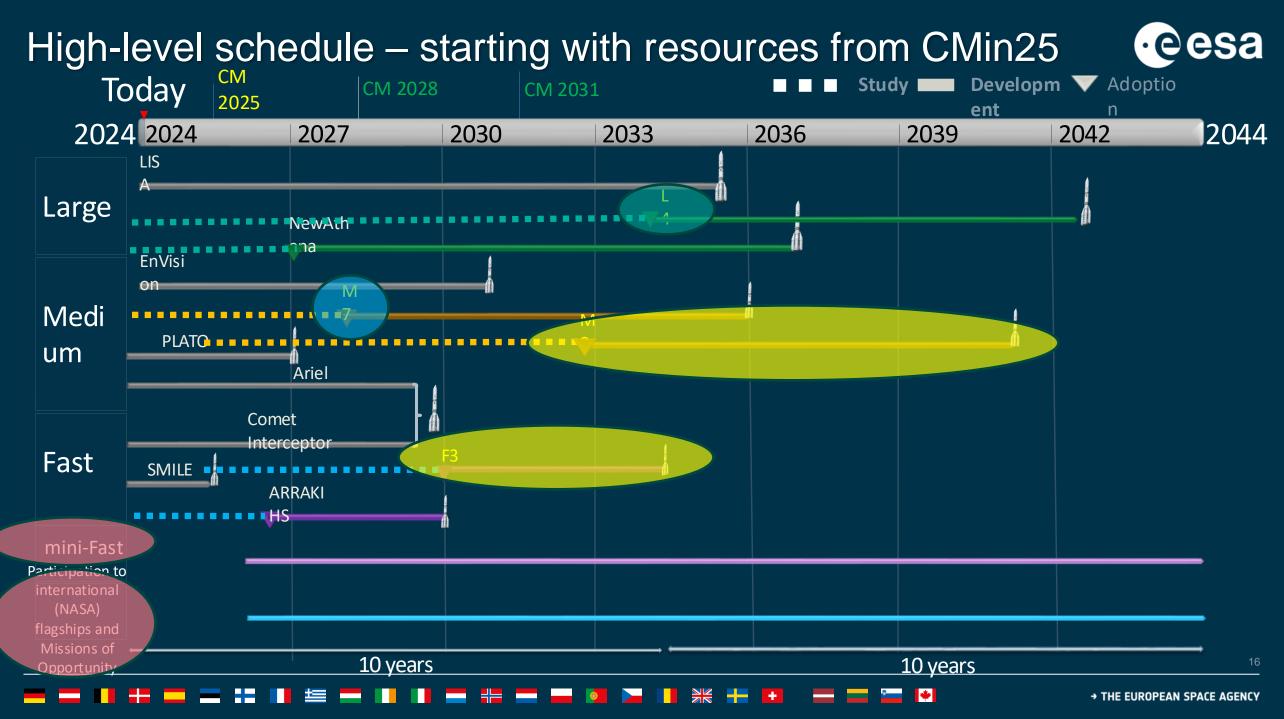
Strategic Objectives: Voyage 2050 sets sail

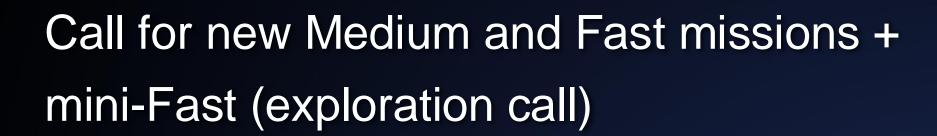




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- Call in Q1 2025
- This is required to be ready to consolidate M / F candidates to keep launch cadence
- Need to start now the process for selecting the next F for the mid-2030's and M for the early-2040's
- Two steps approach (as for the last call) (*)
- ESA will perform a technical / feasibility assessment before end of 2025 of Step 1 proposals (*)
- Exploration call for mini-F proposals (*)
- Proposals for all categories with have to be for ESA-led missions (no contribution to missions led by international partners will be accepted)

(*) details in the following presentation

Thank you very much!

