

#### ESA DIRECTORATE OF SCIENCE

#### **BRIEFING MEETING**

11<sup>th</sup> 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**

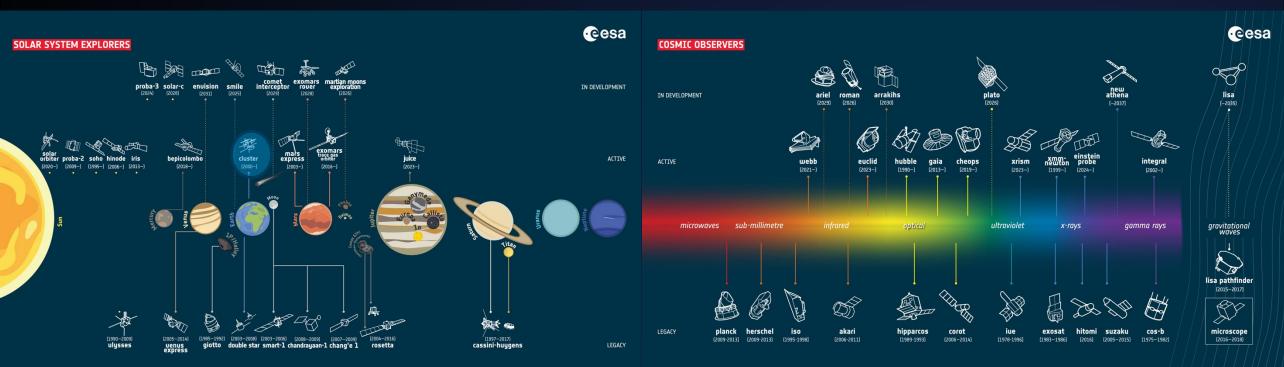
#### Goal: to inform the community of the upcoming calls and provide information on structure and content



## ESA Scientific Programme Fleet



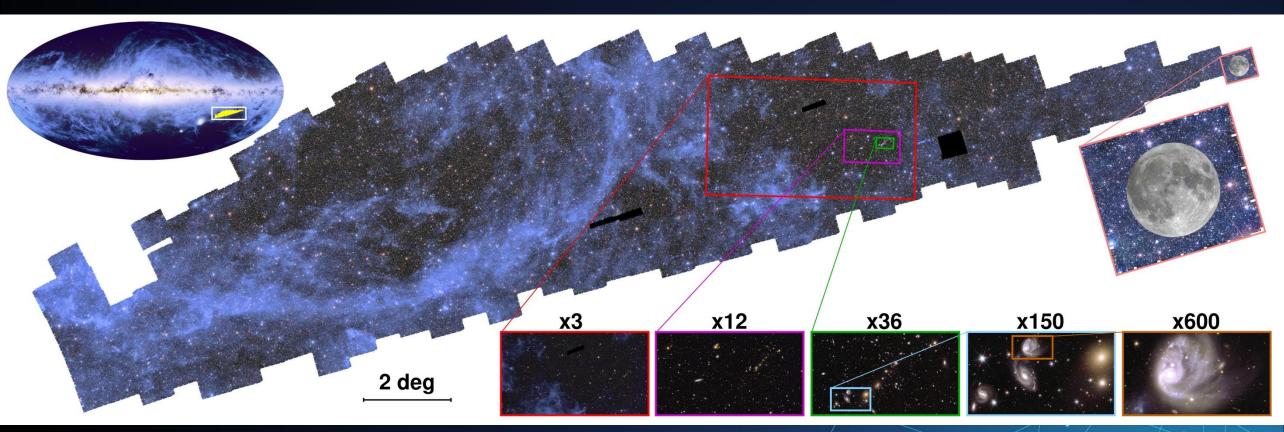
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18 missions in operation; 13 missions in preparation; 23 in legacy phase ... standing on the shoulders of giants! ... Several missions done in international cooperation

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







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

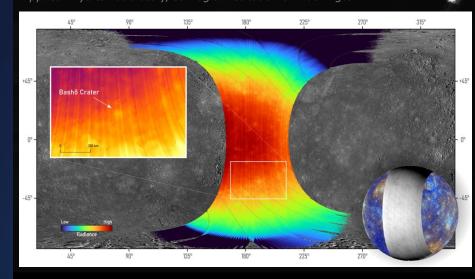
JA XA



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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





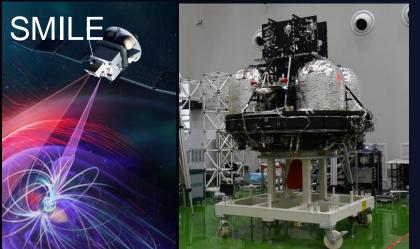
#### Projects in Development



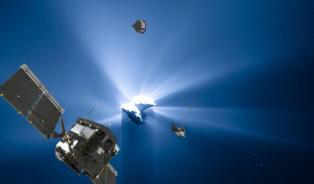








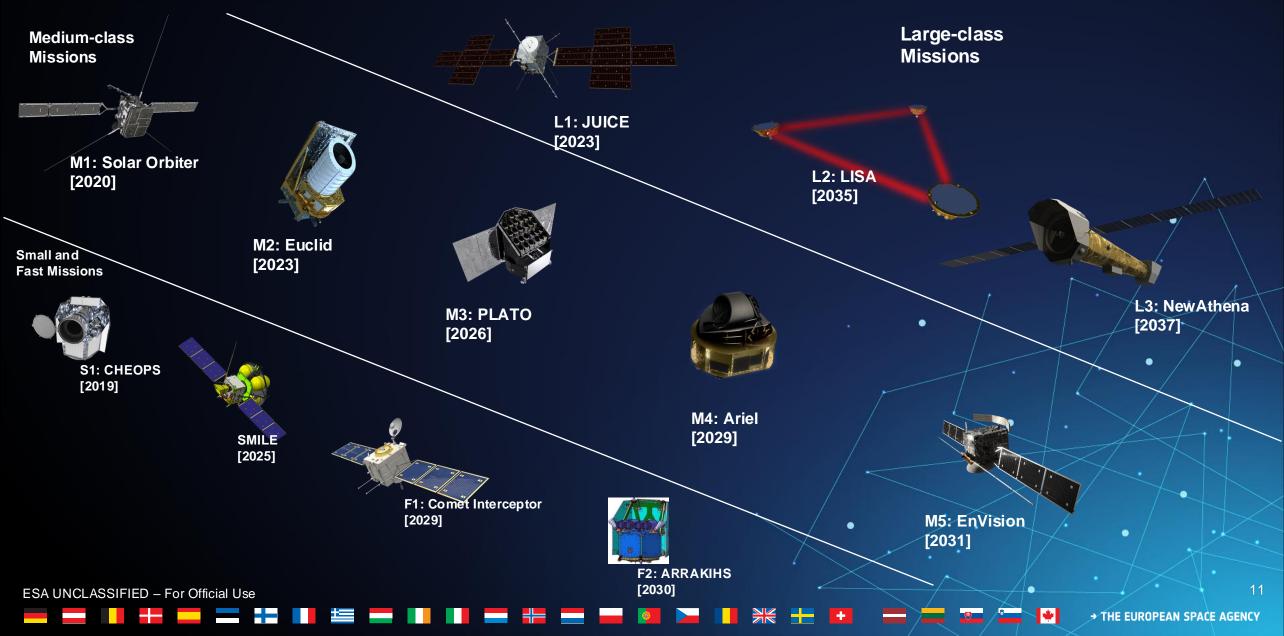
#### **Comet Interceptor**





## Completing the Cosmic Vision



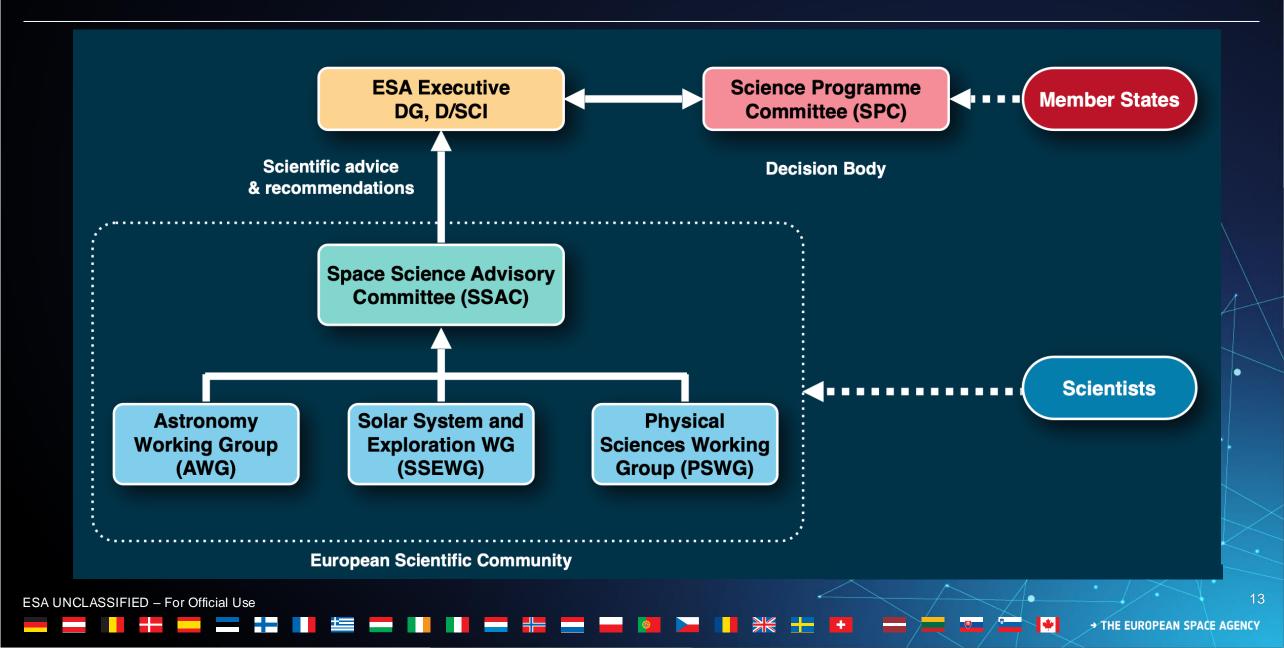


Bottom-up selection: unique feature to achieve excellence of Science missions (M7 and F2 cases)









#### The Science Programme – Goals



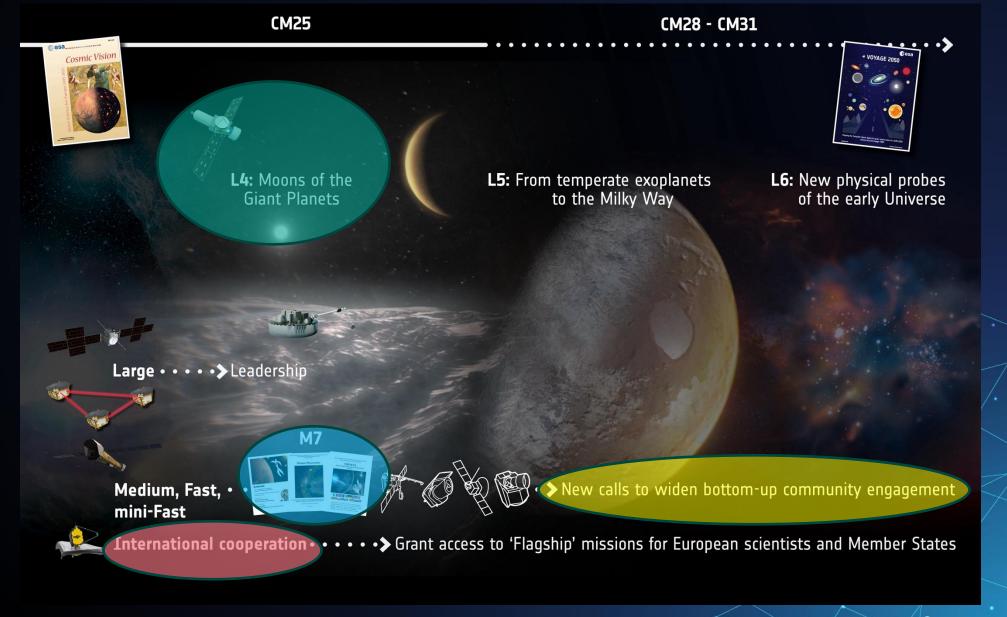
- Goals
  - Maintain and increase **leadership** in key strategic scientific domains
  - Allow <u>cadence</u> of different classes of missions to respond to appetite of scientific community and to different interests of Member States
  - Allow <u>industries</u> to be engaged in new challenging studies 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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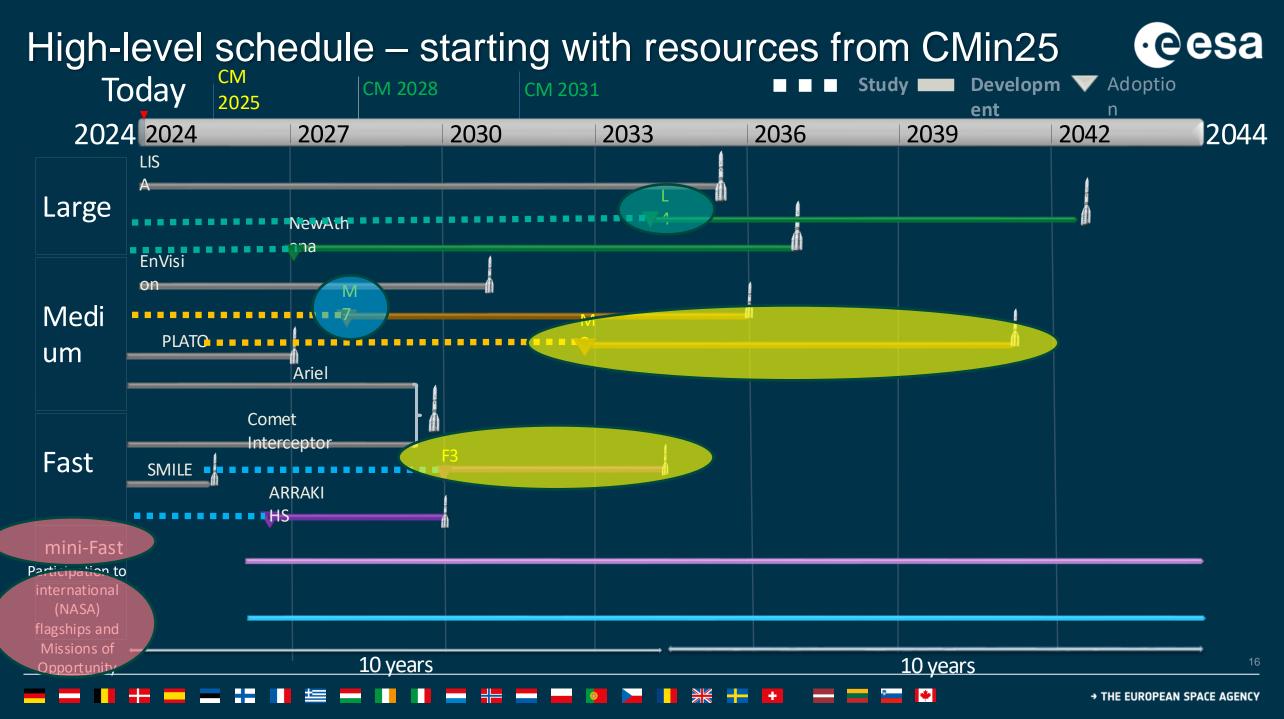
#### Strategic Objectives: Voyage 2050 sets sail

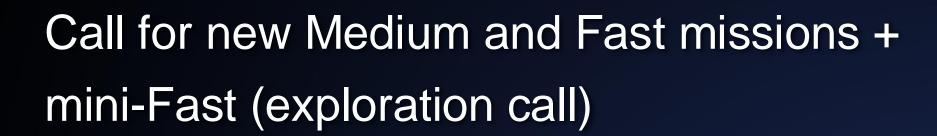




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- Call in Q1 2025
- This is required to be ready to consolidate M / F candidates to keep launch cadence
- Need to start now the process for selecting the next F for the mid-2030's and M for the early-2040's
- Two steps approach (as for the last call) (\*)
- 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!

