



# The future of the ESA Science Programme

11 July 2025

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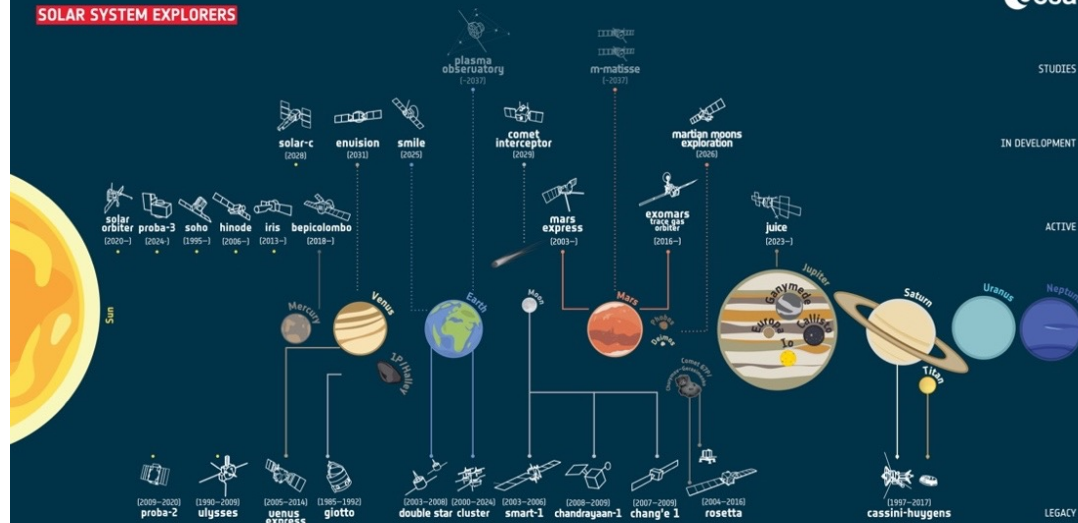
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# ESA Science Fleet

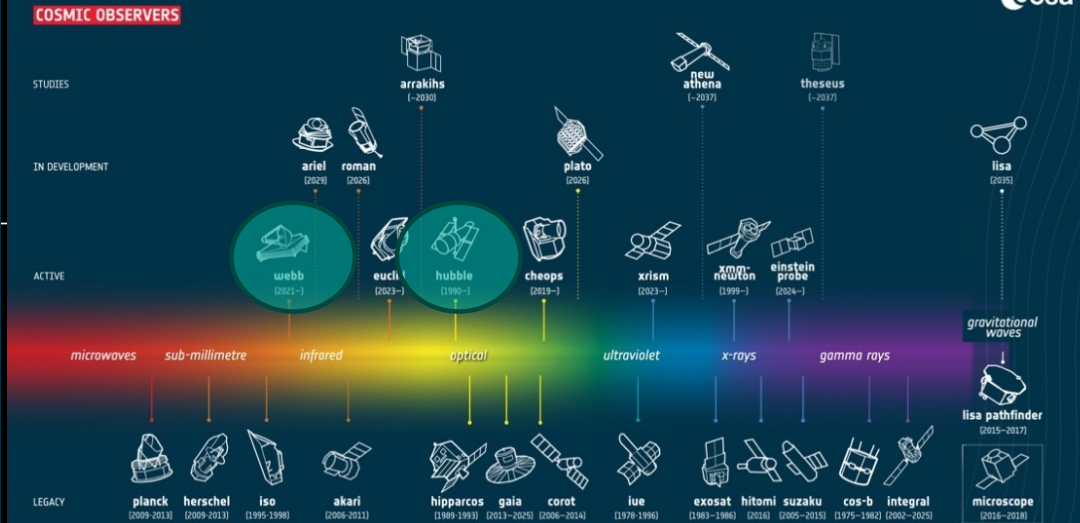


16 missions in operation; 12 missions in preparation; 26 in legacy archives  
... standing on the shoulders of giants! ...

## SOLAR SYSTEM EXPLORERS



## COSMIC OBSERVERS



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# Member State Strategic Priorities Through the Lens of Science



## Main strategic priorities in ESA MEMBER STATES

Industrial Competitiveness  
International Cooperation  
Green and Sustainable Future  
Space Exploration and Science  
Space for Society  
Safety and Security  
Space Talent/Visibility  
Strategic Autonomy  
Downstream applications/digitalisation  
Private financial involvement

## ESA SCIENCE PROGRAMME

- Member States engagement
- European leadership and excellence
- Secure “geo-balanced return”
- Sustainable Industrial return for short, medium & long term
- Technology advancement enabling and game-changing technologies
- Solid management and transformative approach
- Public engagement
- Inspiration for new generations
- Sustaining the European skills pipeline
- Strong role in enabling cooperation with international partners
- Diverse and inclusive environment

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# Next Council Meeting at Ministerial Level in November 2025 (CM25)

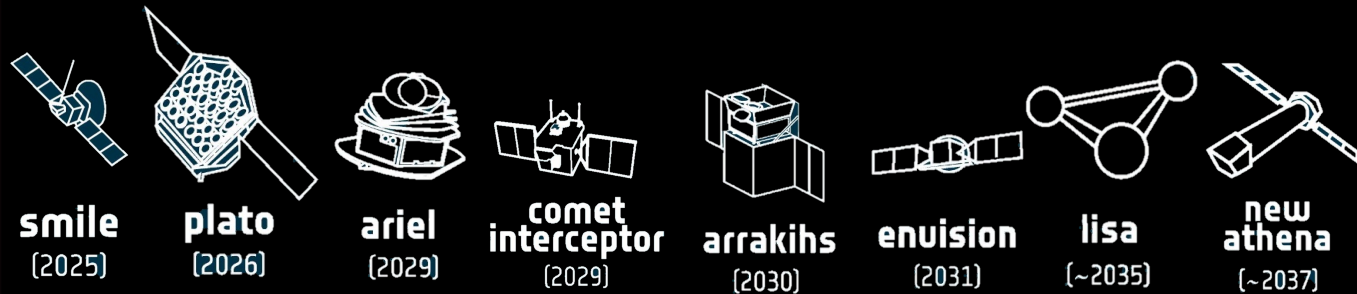
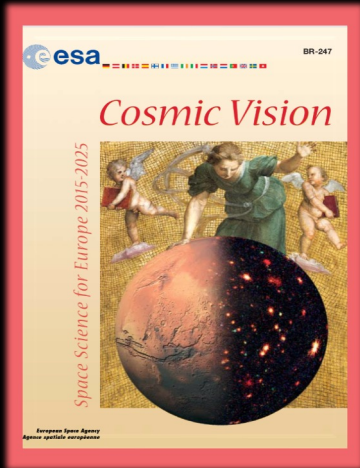




# Science Programme proposal for CM25 – 2 corridors



## 1<sup>st</sup> corridor – Continue and Complete Delivery of Cosmic Vision missions



## 2<sup>nd</sup> corridor – Set the foundation for the Voyage 2050 plan

- First ESA in-situ astrobiology mission to the Moons of Saturn incl. landing on Enceladus
- M7 mission candidates (M-MATISSE, Plasma Observatory, and THESEUS)
- Enrich the portfolio with new candidates for Medium, Fast, and mini-Fast missions
- Engage with international partners in their strategic missions or via the Science Missions of Opportunity



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# Paving the way for the future of the Science Programme



## Cosmic Vision



JUICE

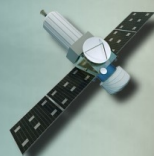


LISA



NewAthena

L4  
Moons  
of the  
Giant Planets



## Voyage 2050

L5  
From temperate  
exoplanets to  
the Milky Way

L6  
New physical  
probes of the  
early Universe

Large . . . . . ➔ Leadership

Medium, Fast, mini-Fast . . . . . ➔



New calls to widen bottom-up community engagement



International cooperation . . . . . ➔ Grant access to 'Flagship' missions for European scientists and Member States

CM25 ➔

CM28 - CM31

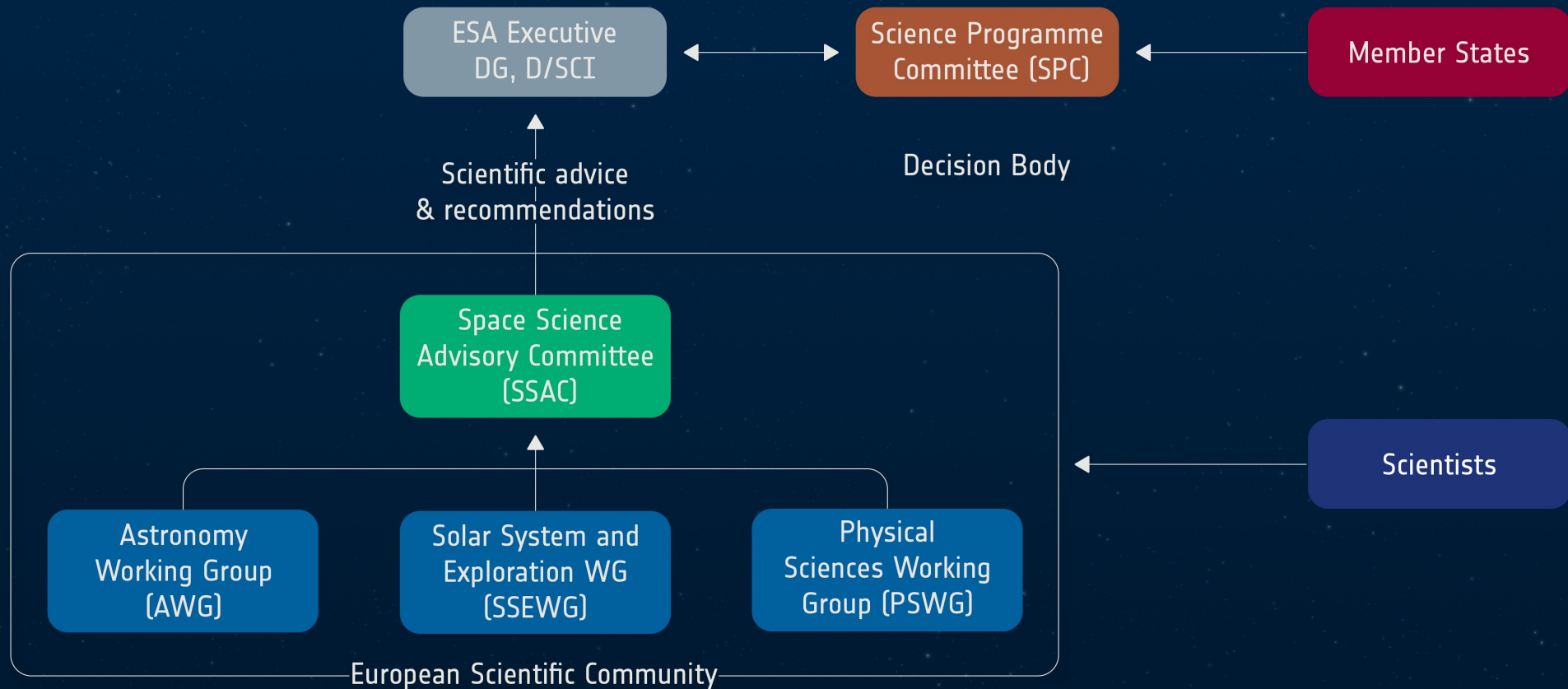
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# Bottom-up approach to building the Science Programme



# European potential contribution to HWO

## ESA - NASA are in discussion for a European contribution under ESA overall coordination:

- First ESA-NASA management meeting with HWO representatives on 4 April
- Two PoC from ESA for future interactions with HWO team on Payload and Mission/System aspects

## ESA Town Hall meeting – 16 May @14:00 CEST

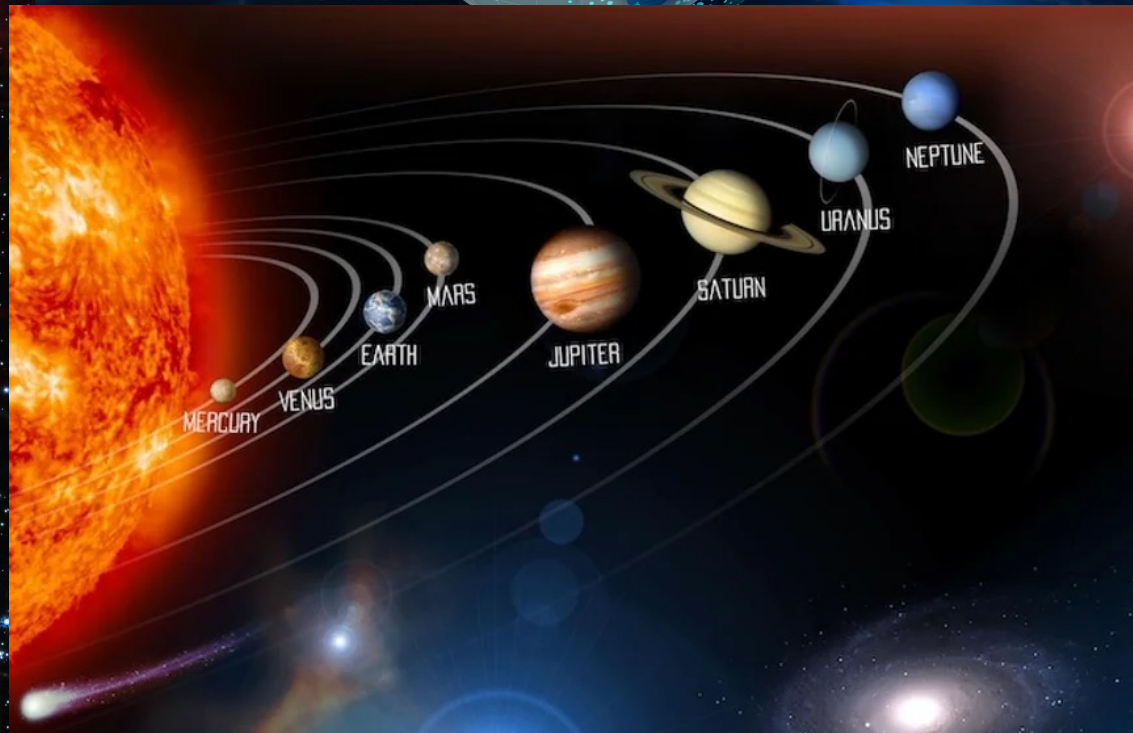
- [https://www.cosmos.esa.int/web/hwo\\_townhall](https://www.cosmos.esa.int/web/hwo_townhall)

ESA has started discussions with the SPC and relevant MSs to progress on a plan for the European contribution to HWO

- Possibly one full instrument provision, Europe-led
- Provisions at component level are also considered

NASA is also investigating a potential contribution from JAXA





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THANK YOU VERY MUCH

