

→ UNITED SPACE IN EUROPE, UNITED EUROPE IN SPACE

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Scientific missions in the new era

Ilaria Zilioli Legal Officer 10/09/2020

THE ESA PURPOSE



SCIENTIFIC AND PEACEFUL PURPOSES

1. EXPLORE THE UNIVERSE (Science Programme)

2. IMPROVE LIFE ON EARTH (Space Applications)

Provide and promote for exclusive peaceful purposes, cooperation among European States In space research and technology and their space applications with a view to their being used for scientific purposes and operational space systems (Art.2 ESA Convention)

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1975 SIGNING OF ESA CONVENTION

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The European Space Agency (ESA) is an intergovernmental organisation established by its funding document : the ESA Convention, which was opened for signature by its member States in Paris, France, on 30 May 1975 and entered into force on 30 October 1980.

The Convention is ESA's most important legal document.

In ESA Member States, it is a legal reference text guiding space activities.

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MEMBER STATES

2019 TODAY





The Agency was founded by sovereign States and it is established on a permanent basis.

ESA is a subject of international law possessing a legal personality (Article XV.1 and Annex 1 Article 1 of the ESA Convention)

This means that ESA is capable to enforce rights and duties and that it is entitled to actions and responsibilities distinct from the ones of its Member States.

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WE ARE ESA



EUROPE'S GATEWAY TO SPACE WHAT 22 Member States, 5000 staff and contractors Exploration and use of space for WHY exclusively peaceful purposes HQ in Paris, 7 sites across Europe WHERE and a spaceport in French Guiana HOW MUCH €5.72 billion = €12 per European per year ESA UNCLASSIFIED - For Official Use

WHAT DOES ESA DO?



ALL OF THIS IS POSSIBLE THANKS TO THE COLLABORATION OF MEMBER STATES

ESA is active across every area of the space sector

World leader in science and technology

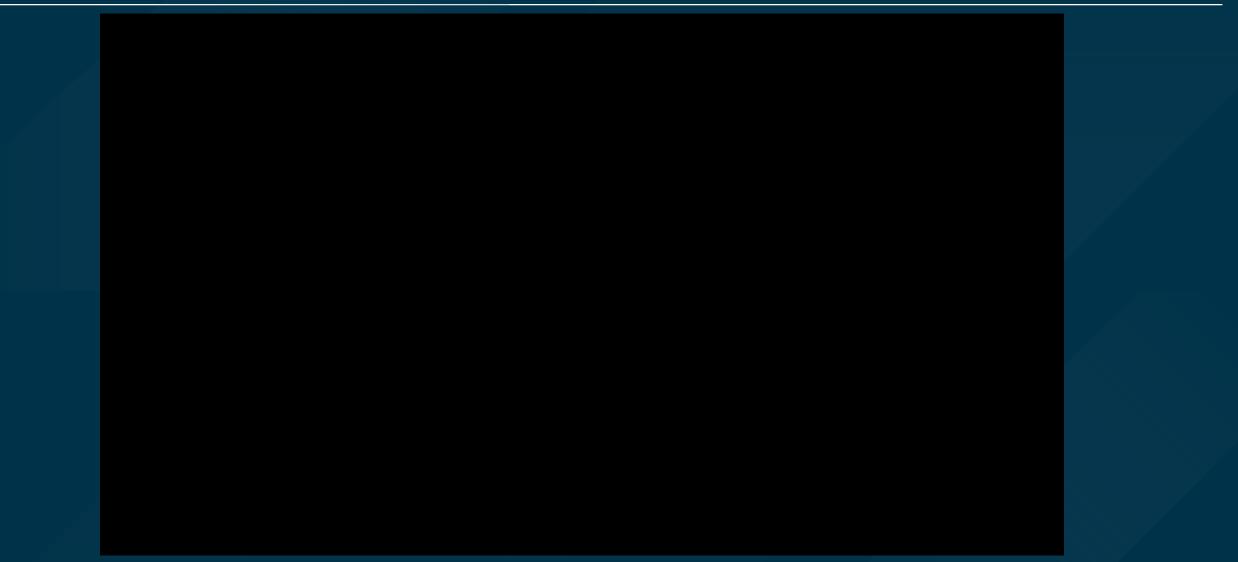
Over 80 satellites developed, tested, and operated since 1975

More than 220 launches from Europe's Spaceport in Kourou

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SPACE 19+

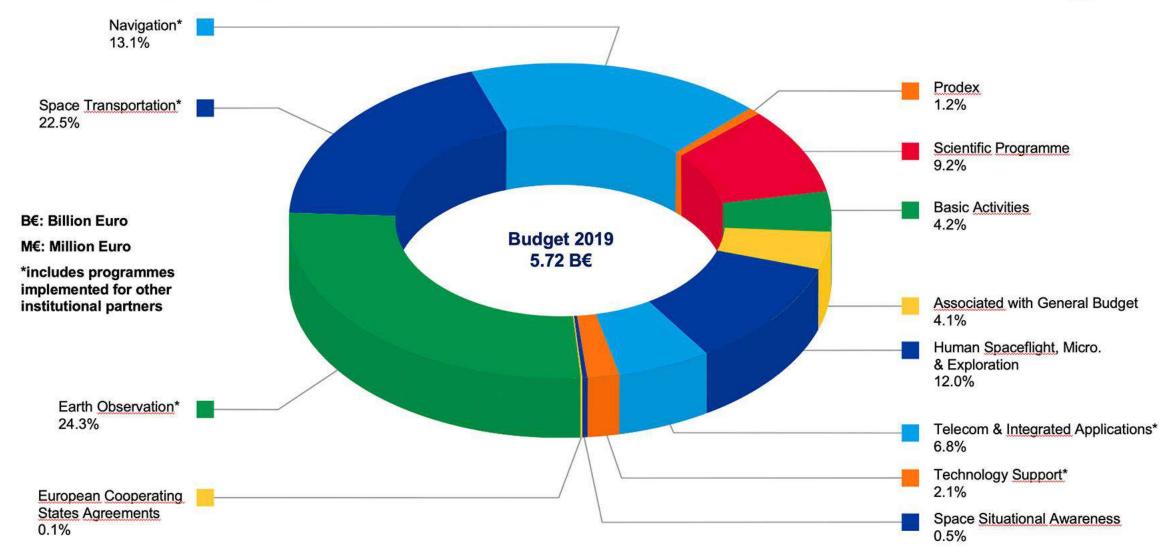




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ESA Budget per activity in 2019: 5.72B€





ENABLING AND SUPPORTING



TRAVELLING TO SPACE > Europe's Spaceport, Kourou, French Guiana

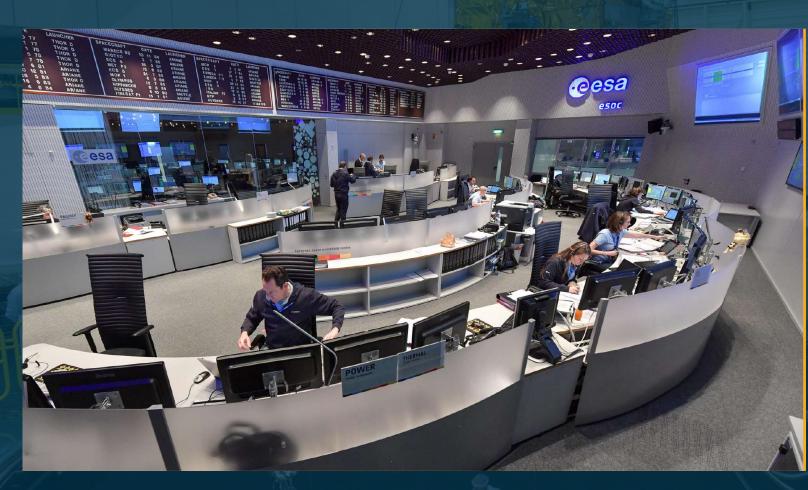


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ENABLING AND SUPPORTING



TAKING CONTROLESOC control room



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ENABLING AND SUPPORTING



NETWORK OF SPACE ANTENNAS > Spain, Australia & Argentina

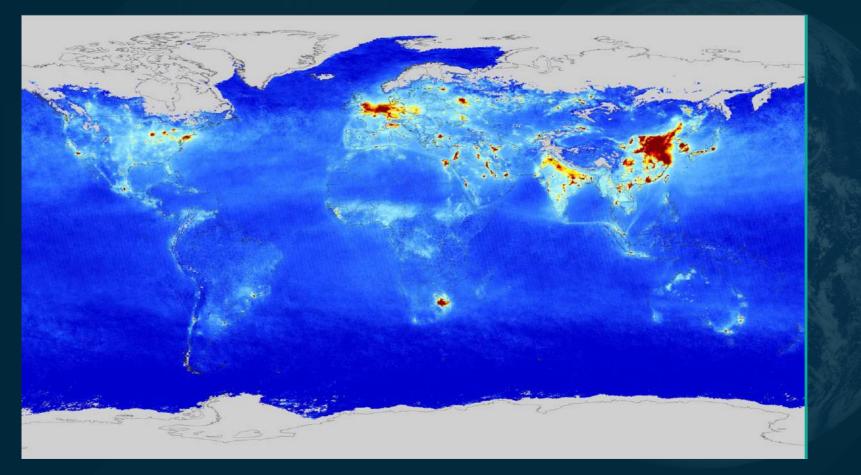
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APPLICATIONS



WATCHING OVER OUR EARTH Air quality map



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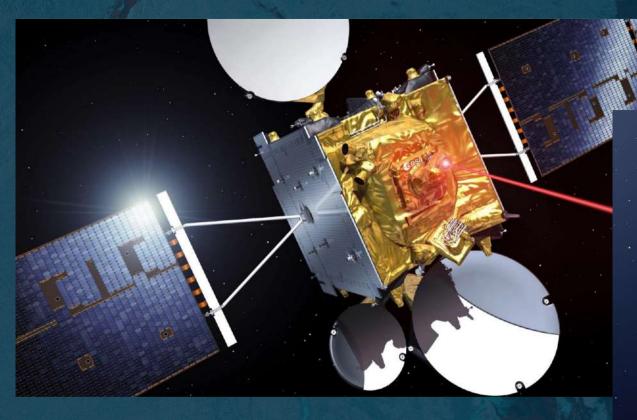


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APPLICATIONS



CONNECTING YOUR WORLD DEDRS Global





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APPLICATIONS



CONNECTING YOUR WORLD > Galileo constellation

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European Space Agency

SAFETY AND SECURITY

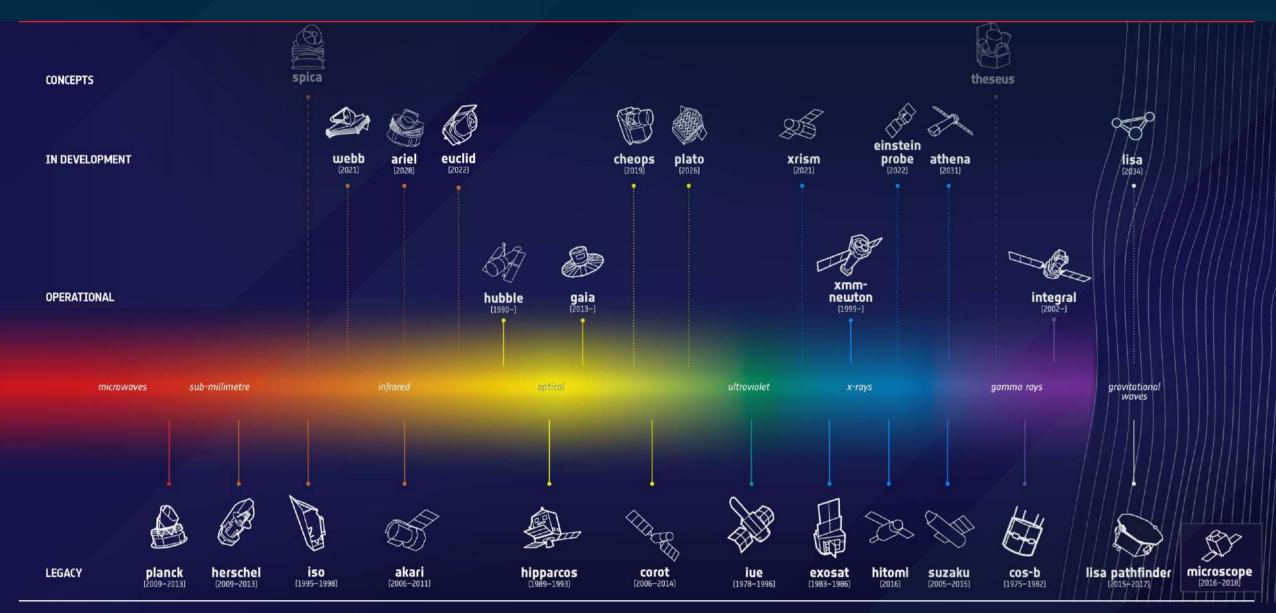
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SCIENCE AND EXPLORATION

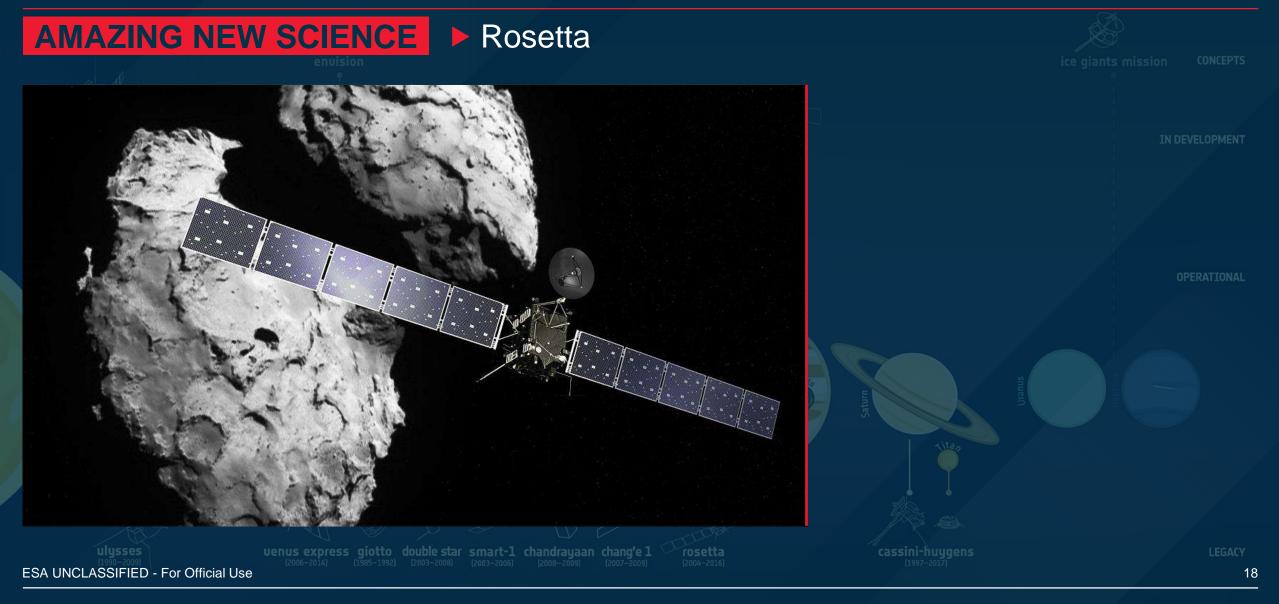




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SCIENCE AND EXPLORATION

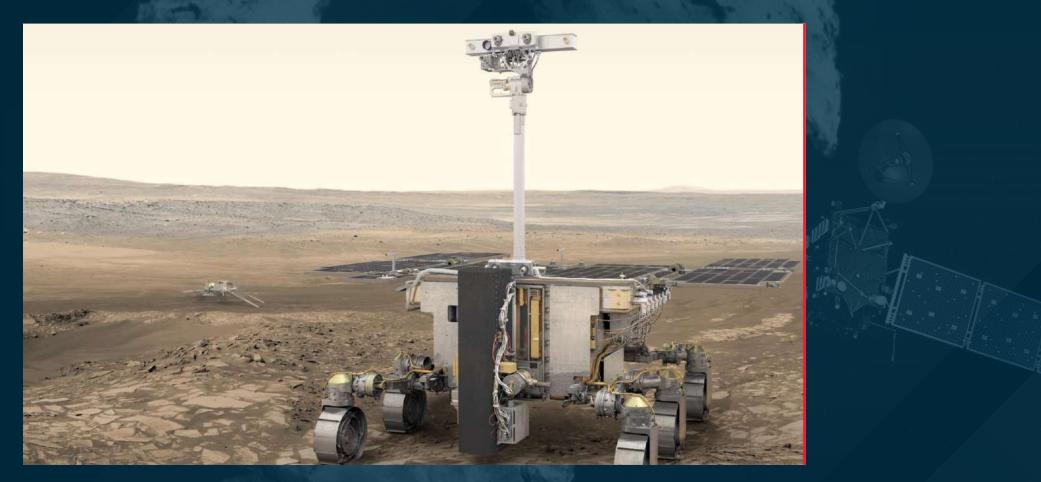




SCIENCE AND EXPLORATION



EXPLORING THE UNIVERSE ExoMars rover



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Who decides about space missions ? The role of the ESA Legal Officer

Before any decision on a (scientific) space mission is taken a number of legal texts have to be prepared and submitted to the relevant bodies of the Agency for their approval. The Legal Officers play an important role in preparing such documents.



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ESA ORGANS



ESA has two organs:

- the Council and
- the Director General

assisted by the staff (Article 10, ESA Convention).



- The Council is the organ representing the Member States, it meets as and when required either at Ministerial or delegate level. Appointed by the Council, the Director General represents the Agency in all its acts.
- The **Ministers of ESA Member States** gather every 2-3 years to define the policy to be followed in pursuit of ESA purpose. During these Councils at Ministerial Level, decisions are taken on the main orientations for the upcoming years, the level of resources to the Agency and to programmes. Member States also agree to start new programmes or eventually to terminate them.

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ESA COUNCIL (the decision making process)



On a more regular basis, **Delegations nominated by the Member States meet during the Council** organised mainly at ESA Headquarters (Paris, France).

During these sessions, they review each programme, prioritise them and determine the course of their implementation.

They adopt the budgets, the financial and staff regulations. More generally, they take all measures necessary for the fulfilment of the goals of the Agency.

Each Member State has one vote and it is represented by a delegation composed by a maximum of 2 persons. However a Member State shall only have the right to vote on matters concerning exclusively accepted programmes in which it takes part.

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PLENARY SUBORDINATE BODIES (the decision making esa process)

- As requested in the Convention, the Council has set-up subordinate bodies to be assisted in its duty.
- Each of the **Committees** and Programme **Boards** take decisions, make recommendations or are kept informed according to the amount of powers invested in them by the Council in their given area of responsibilities.
- Each Member States nominates its representation to the boards and committees (often accompanied by experts).
- Administrative and Finance Committee (AFC) makes recommendations to the Council, the Programme Boards and the Director General, as appropriate, on matters of an administrative, staff, financial or legal nature.
- Industrial Policy Committee (IPC) its ole is to define, implement and monitor ESA's industrial policy; approve procurement and contract proposals for the implementation of ESA's activities.
- International Relations Committee (IRC) assists the Council in concerting the policies of the Member States in the space field with respect to other national and international organisations and institutions.

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Science Programme Committee (SPC)



The Science Programme Committee is the only committee, the creation of which is explicitly provided for by the ESA Convention itself (Art. XI.8.a)

By delegation of the Council the SPC has the authority for :

- the selection and adoption of within the overall mandatory scientific programme and the ceilings approved by the Council
- the follow up of the execution of the scientific programme and of forward looking studies devoted to scientific activities (with a view to the preparation and selection of future projects)
- The review and approval of the legal arrangements necessary for the execution of the programme

The SPC shall follow the same rules of procedure of the Council

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scientific projects 💻 🚝 📕 📕 🚍 🗮 🗮 🖉 📕 🖛 🖉 📕 🚍 🗰 💥 🚝 🕒

IN CONCLUSION: WHO BENEFITS from SPACE ACTIVITIES?





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<u>https://www.esa.int/Applications/Observing_the_Earth/Space_for</u> <u>our_climate/Earth_Day_taking_the_pulse_of_our_planet</u>

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