

# Workshop Objectives

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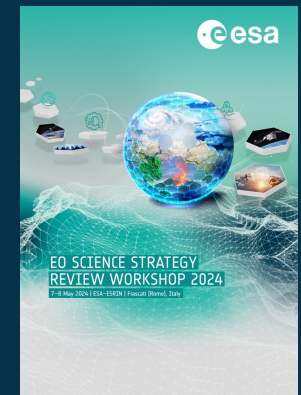
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# What is ESA's new EO Science Strategy?



- ❑ Articulates a **strategic vision** for EO science at ESA, as a pillar for “everything” else
- ❑ Presents **cross-cutting** science priorities (addressable by EO), which respond to scientific **and** societal challenges - and have relevance and beneficial impact
- ❑ Coherent with the **2040 horizon** and identifies **strategic areas of action** implementable on **different timescales**
- ❑ **Focus attention** on areas where ESA's programmes and activities can address scientific challenges, assemble scientific knowledge with which to **take action**, and with **traceable & beneficial impact**
- ❑ Identifies areas of science that ESA may respond to **across the value chain**, from innovative missions, technology development, through scientific excellence to societal benefits
- ❑ Involves R&D and innovation, strong partnerships with national programmes and funding agencies – even beyond the space sector
- ❑ Previous ESA EO Science Strategy published in 2015 – **much has changed!**
- ❑ 2021 Independent Science Review (of the EOEP-5/FutureEO-1 programme) recommended updating (more frequently) the EO science strategy



# Earth Action – what is it?



- Leverages satellite data to **inform decision-making** and **enable action** to **support urgent societal needs** – especially the Earth’s natural **environment and climate**.
- Includes mitigating and adapting to climate change and sustainable management of resources.
- Targets the **generation** and **delivery** to stakeholders of **actionable information** - beyond provision of data - in the most impactful manner
- Requires interactions **beyond the “space” sector** communities (and quite likely ministries!)
  - **Aligns** with partners, like IFIs, UN, EU (CLIMA, RTD, INTPA, DEFIS, ENV, AGRI, etc.)
- Leverages digital technology, “open” principles – and commercialisation
- Is **bigger than ESA** and is ideally not funded by “space budgets” (or even public sector) alone
- A **science-driven EO strategy** provides the basis for improving the understanding of our evolving planet and the development of actionable products, services and solutions



# EO Science Strategy Review Workshop



## □ Objectives

- Outline programmatic **considerations driving the Strategy**, and process followed
- Present the **public draft** Strategy contents and structure
- Conduct a community townhall on its role in guiding the implementation of ESA programmes.
- Review how to **best implement** (and improve) the strategic priorities and monitor progress (missions, digital Innovation, open science, commercial EO, European and International partnerships)
- Collect **feedback and recommendations** on strategy content

## □ Workshop Programme in a nutshell

- Presentations addressing development and content of science strategy, programmatic aspects and supporting work and tools (e.g., EO architecture)
- Community review through 4 splinter sessions aligned with strategic drivers
- Final plenary to present outcome of splinters, consolidate recommendations

# Workshop Agenda (Day 1: 7 May)



7 May (13:30 – 18:00hrs) – Plenary Session (Live Streamed)

## The EO Science Strategy

- Development of the new EO Science Strategy
- Establishing the Foundation for the Science Strategy
- EO Reference Architecture Blueprint

## Enablers of Earth Action

- Global Cooperation and Partnerships for policies and development
- The International Climate Network
- The European Science Habitat
- Digital Innovation and Open Science
- Partner Perspectives (EUMETSAT and NASA)

## Discussion Session and Look Ahead to Day 2

CLOSE – 18:00hrs

Icebreaker at Villa Tuscolana (Bus at 18:30hrs; return at 22:00hrs to Frascati centre)



# Workshop Agenda (Day 2: 8 May)



8 May (09:00 – 16:00hrs) Splinter Sessions (09:00 – 11:00hrs) \*NO LIVE STREAMING

- Splinter 1, 2, 3, and 4 discussions

Plenary Session (Live Streamed) – 11:30hrs – 13:30hrs)

- Splinter 1 Report
- Splinter 2
- Splinter 3

Lunch & Photo – 13:30 – 14:45hrs

- Photo at 14:30hrs

Plenary Session (Live Streamed) – 14:45hrs – 16:00hrs)

- Splinter 4
- Next Steps

CLOSE – 16:00hrs



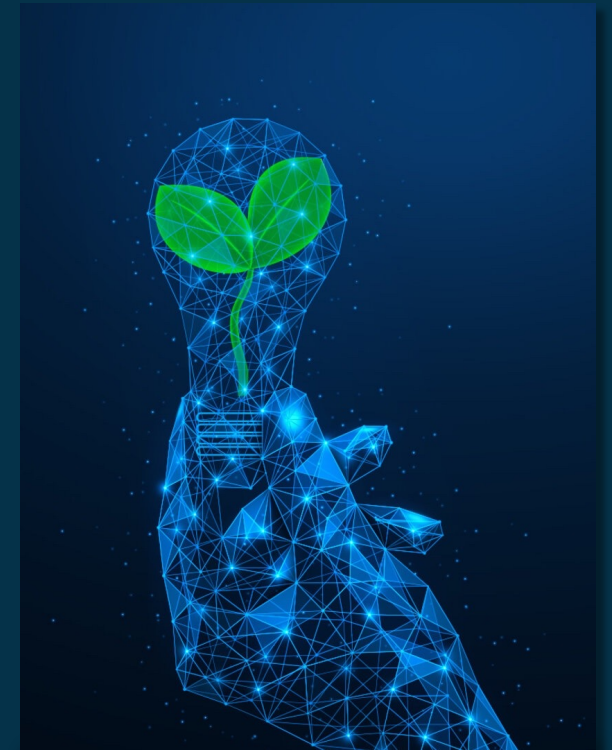
# EO science strategy: what's next?



- Elaboration by Executive of draft mid Jan - mid-April
- Release of draft EO Science Strategy on 23 April
- 7-8 May : **ESA EO Science Strategy Review Workshop (@ESRIN)** with the aim to
  - Present and discuss the EO Science Strategy, and the outcome of the Foundation Study activities to define science priorities
  - Present and discuss the implementation of the strategy
  - Discuss the strategic science drivers and their weights in defining programme activities

Introduce the Executive's initial plan for Earth Action narrative and alignment at CM-25

- 12-13 May: **ACE20 Review of Workshop feedback and consultation on Final draft Science Strategy**
  - Endorsement of final content by ACEO – July 2024
  - Endorsement by PB-EO/public release Q3/2024



# EO Science Strategy Review Workshop



**EO SCIENCE STRATEGY  
REVIEW WORKSHOP 2024**

7-8 May 2024 | ESA-ESRIN | Frascati (Rome), Italy

