

# **ESA Earth Observation and ESA Connectivity and Secure Communications**

## **Programme Board News**

Space Business Forum 17.6.2024 / JL

# Recall: EARTH OBSERVATION (PB-EO #199)

- **Finland has joined InCubed Industrial Fellowship initiative:** a dedicated campaign has been issued Open Space Innovation Platform - OSIP - Campaign: [Speed InCubed - Industrial Research Fellowships](#) (Letter of Support needed from Finnish ESA delegation)

There are two different schemes in the program:

- PhD-level fellowships (in collaboration with a Research Institution) will be co-funded in partnership with a company by max. 50% from ESA and for up to 3 or 4 years.
  - Post-doctoral fellowships (with or without the involvement of a Research Institution) will be co-funded in partnership with a company by max. 50% from ESA and for 2+2 years.
  - ESA has defined a maximum budget of 150.000 Euro FFP as a co-funding contribution.
- **Earth Observation Programme Board Meeting** PB-EO (end of term of Finnish chairmanship) **will be organised at Saariselkä in February 2025** (preliminary venue 4-5.2.2025 at Santa's Hotel Tunturi tbc). Finnish industry is invited to express their interest to be present. The closed meeting agenda will be tight and any opportunities to meet ESA staff and (top) management will be announced later.

# EARTH OBSERVATION (PB-EO #200)

## ▪ Initiation of the Second Scout Cycle

- **Scout missions are characterised by a pro-active role of industry and academia (“co-engineering”), a low-cost approach (industrial cost lower than 35 M€, e.c. 2024) and a rapid development cycle (3 years from start of implementation to flight acceptance).** Scout missions call for observing techniques and instrumentations with sufficient scientific and technological maturity to secure a quantifiable science return.
- Entities that are not Large System Integrators (LSI, identified according to the standard ESA definition) should be positively encouraged in future Scout cycles through the use of a preferential clause
- Timeline for Consolidation Phase, 4 mission candidates:
  - June 2024: IPC approval of the Procurement Proposal
  - **10th July 2024: Scout Information Day**
  - September 2024: Release the ITT for the next Scout call
  - December 2024: Deadline for ITT proposals (3 months for preparation of proposals)
  - January to April 2025: evaluation of the proposals, negotiation of the 4 mission candidates
- Pending the successful results of the above studies and the outcome of CM25, the second step of the second Scout cycle will consist in the **implementation of up to two out of the four mission concepts** that will have completed the system consolidation studies (PB-EO decision in May 2026).

## ▪ CM25 Workshops continue

# EARTH OBSERVATION (PB-EO #200)

## EE12 Mission Information Day (MiD) :

- As part of ESA's commitment to develop and build satellite missions that push the boundaries of satellite technology and Earth science, four new mission ideas – Cryorad, ECO, Hydroterra+ and Keystone – have been selected to enter pre-feasibility study and compete to be the twelfth Earth Explorer mission (EE12). **Industrial entities with a potential interest in EE12 Mission candidates are invited to join a one-day Mission Information Day (MiD) on 9 July 2024, Noordwijk, The Netherlands, hybrid event.** Further information, including background on the candidate missions, the agenda for the MiD as well as the registration modalities can be found in the following URL:
- <https://atpi.eventsair.com/ee12-mid-for-industry/>

## 2nd Cycle Scouts Information Day (SiD):

- ESA launched in a new framework to develop scientific missions for Earth Observation exploiting the new space initiative and complementing the well-established series of Earth Explorer research satellites. The Scout Framework is meant to respond to the dynamism of a quickly evolving scientific and technological environment in the Earth Observation sector by reducing the time and cost to deliver demonstrations of novel EO techniques in the Earth sciences, taking advantage of new development methodologies, higher-risk approaches and existing assets. **All entities with a potential interest in the Scout Framework are invited to join a one-day Scout Information Day (SiD) on 10 July 2024, Noordwijk, The Netherlands, hybrid event.** Further information, the agenda for the SiD as well as the registration modalities, can be found in the following URL:
- <https://atpi.eventsair.com/2nd-cycle-sid/>

# EARTH OBSERVATION (PB-EO #200)

- As the 6th Earth Explorer Earth Observation Science mission – part of the FutureEO programme, the Earth Cloud Aerosol and Radiation Explorer **EarthCARE** satellite was launched on a SpaceX Falcon 9 from the Vandenberg Space Force Base in California on 29th May. It was developed as a cooperation between ESA and the Japan Aerospace Exploration Agency (JAXA). EarthCARE carries a set of four instruments to make a range of different **measurements to shed new light on the role that clouds and aerosols play in regulating Earth's climate.**
- Next launch end of June / early July: **Arctic Weather Satellite** on Falcon 9 rideshare mission. Arctic Weather Satellite mission is expected **to improve weather forecasts in the Arctic.** Today, satellites, both those in geostationary orbit and in polar orbit, provide a wealth of information, however, the monitoring of the Arctic remains insufficient, as geostationary satellites have no visibility of this northerly region.

# Connectivity and Secure Communications

(JCB #260)

- **IRIS<sup>2</sup> Status** (Infrastructure for Resilience, Interconnectivity and Security by Satellite)
- **Business Applications and Space Solutions (BASS)**
  - Joint IPC and JCB workshop on CM25 on 24<sup>th</sup> May (ScaleUp Innovate / ScaleUp Invest / ARTES BASS)
- **CM25 Workshops continue (next one 26<sup>th</sup> June - Elements of First Programme Proposals)**

# How to do Business with ESA <https://doing-business.sso.esa.int/>

DOING BUSINESS WITH ESA 

## Doing Business with ESA

This portal provides access to the different ESA IT Corporate Applications for all economic operators doing business with, or intending to interact with, ESA. A click on the "More Details..." button provided for each IT Corporate Application reveals a brief description which explains the purpose of and process supported by the related system. To access any of the applications, please use the "Access" buttons. Some systems can be entered as a guest user, without the need to log-in. However, functionalities and data available will be limited. Additional information about the ESA Procurement Process and further useful links for economic operators are provided on the right-hand side.

esa-star Announcements 

ESA Programmes Information 

 <b>esa-star</b> Registration <a href="#">More Details...</a> <a href="#">Access</a>	 <b>esa-star</b> Tendering <a href="#">More Details...</a> <a href="#">Access</a>	 <b>esa-star</b> Publication <a href="#">More Details...</a> <a href="#">Access</a>	 <b>esa-star</b> esa-match <a href="#">More Details...</a> <a href="#">Access</a>
 <b>esa-star</b> ECM <a href="#">More Details...</a> <a href="#">Access</a>	 <b>esa-star</b> CCD <a href="#">More Details...</a> <a href="#">Access</a>	 <b>esa-star</b> ASTRA <a href="#">More Details...</a> <a href="#">Access</a>	 <b>esa-p</b> <a href="#">More Details...</a> <a href="#">Access</a>

Entity Capability Mapping   Contract Closure Documentation   ESA Industrial Audit's portal   Supplier portal for ESA's contractual partners

About ESA's Procurement Process 

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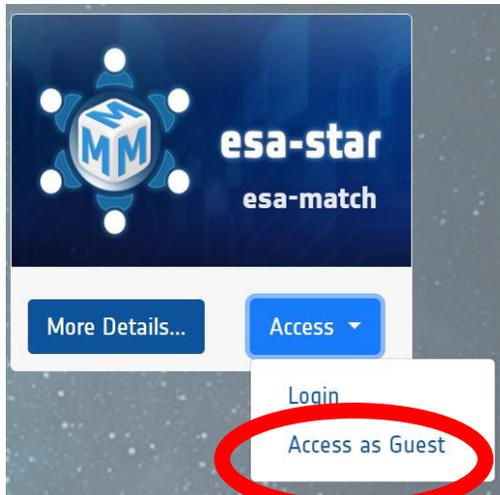
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Nr:971	<b>2ND CYCLE SCOUT INFORMATION DAY - 10 July 2024, Noordwijk, The Netherlands</b>	Publication Date: 10/06/2024
	ESA launched in a new framework to develop scientific missions for Earth Observation exploiting the new space initiative and complementing the well-established series of Earth Explorer research satellites. The Scout Framework is meant to respond to the dynamism of a quickly evolving scientific and technological environment in the Earth Observation sector by reducing the time and cost to deliver demonstrations of novel EO techniques in the Earth sciences, taking advantage of new development methodologies, higher-risk approaches and existing assets. All entities with a potential interest in the Scout Framework are invited to join a one-day Scout Information Day (SID). Further information, the agenda for the SID as well as the registration modalities, are provided in the attached announcement.	Classification: Procurement Related News
1-12407	<b>AIRBORNE G-BAND RADAR INSTRUMENT FOR THE SUPPORT OF FUTURE EARTH OBSERVATION ATMOSPHERIC MISSIONS</b>	ESA Tender Action
Intended	Cloud feedbacks and precipitation systems remain the primary source of uncertainty in Earth climate models and numerical weather predictions. To enhance our understanding, there is a crucial need to comprehensively characterize the vertical structure of clouds and precipitation. This involves observing the microphysical, dynamical, and radiative processes occurring at cloud scales. A solution to provide such observations involves leveraging measurements from multi-frequency radars spanning frequencies from 10 GHz to above 200 GHz. Using multiple frequencies facilitates the characterization of a broad spectrum of particles, from heavy precipitation to small ice crystals. Notably, the inclusion of G-band, operating at 1.5 mm wavelength (i.e. about 200 GHz), offers significant advantages in three key areas: boundary layer clouds, cirrus and mid-level ice clouds, and precipitating snow. Recent technology advancements in millimetre-wave ...	Open Competition Announcement Date: 16/05/2024
1-12360	<b>ESA PHI LAB IRELAND</b>	ESA Tender Action
Intended	As part of the -labNET, one of the Components of the Innovate Element in the ScaleUp Programme. ESA plans to roll out several different new -labs in ESA Member States - following the successful implementation of the first ESA -lab at ESRIN. The objective is to create a dynamic network of -labs across Europe focusing on delivering innovation ready for commercialisation with the ability to disrupt and transform markets. The approach will be to innovate and apply an "under-one-roof" approach teaming up with academia, research centres, national space centres, industry as well as intermediary entities such as ESA Business Incubation Centres (ESA BICs), Technology Brokers, Accelerators, and private investors, including Venture Capital organisations. A common approach, similar to the one established by the Agency for its network of ESA BICs, will be applied across the -labNET. This includes scouting and selecting studies, providing researchers with ...	Open Competition Announcement Date: 16/04/2024
1-12355	<b>FUTURE EARTH OBSERVATION SYSTEM ARCHITECTURE SYSTEM OF SYSTEMS ANALYSES FROM A SCIENCE NEED PERSPECTIVE - EXPRO PLUS</b>	ESA Tender Action
Issued	The ESA Earth Observation Reference Architecture Office is entrusted to derive and maintain the generic ESA Earth Observation Reference System Architecture encompassing all domains of Earth Observation. The architecture provides a holistic view across all ESA Earth Observation Programmes like Copernicus, the EUMETSAT Meteorological Mission, Earth Explorers, Scouts, and Earth Watch missions. To complete the picture institutional missions where ESA has a sound cooperation in place and national missions of ESA member-states are considered. The architecture is not only encompassing the space segment, but also ground segment, communication infrastructure and data, processing, dissemination and storage segment at different levels of detail. In addition, other sources of data and infrastructure as High Altitude Pseudo Satellites (HAPS) and vicarious calibration related information as PICs (Pseudo Invariant Calibration Sites) and specific vicarious ...	Open Competition Announcement Date: 04/04/2024 Open Date: 03/05/2024 Closing Date: 21/06/2024

# How to do Business with ESA <https://doing-business.sso.esa.int/>



The screenshot shows the ESA-Match homepage. The header includes the ESA logo and 'esa-star' and 'esa-match' text. The main heading reads 'Welcome to the European Space Agency's industry matchmaking portal'. The page is divided into three main sections: a left sidebar with statistics, a central content area with event listings, and a right sidebar with navigation icons.

Icon	Category	Count
	Company Profiles	15579
	SME Profiles	2742
	Products	552
	Certifications, Labels & Patents	187
	Skills	96033
	Facilities	216

**13 June 2024**  
• 9th European Mission Operations Data S...  
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**18 June 2024**  
• 2nd ESA RAMS Conference ESA/ESTEC

**19 June 2024**  
• 2nd ESA RAMS Conference ESA/ESTEC  
• 5th ESA REACH Workshop ESA/ESTEC

- Space Industry Directory
- Opportunities
- Login

# How to do Business with ESA <https://doing-business.sso.esa.int/>

**esa-match** is ESA's industry matchmaking tool. The platform supports the visibility of entities registered with ESA, facilitates partnering, teaming and cooperation between companies and brings together (potentially unknown) products, services or technologies and (latent) needs.

Information in the **public part is accessible to anyone without the need to log in**; Information in the internal part is open to esa-star registered users only. Aside from the searchable Space Industry Directory, esa-match offers features such as:

- a Marketspace which lets companies and organisations advertise offers and needs;
- a B2B area which enables users to send messages to other entities via the tool;
- an ESA Calendar which lists important ESA events such as Industry Days, conferences and training courses;
- a Student Opportunities in Industry section which lets companies and organisation place ads to look for interns, trainees or thesis students;
- a Tender Action area which provides access to ESA and non-ESA tender actions in open competition and information about potential partners;
- a Dashboard which allows registered users to customise their esa-match experience and create their own homepage view with useful information (e.g. new tender actions published since last visit, Marketspace ads placed by others, ongoing B2B area conversations with other entities, profile views by other entities, number of personal "Favourites" marked in the system, "Recently added items" and much more).

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For more data,  
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