

# Earth Explorer 11 Mission Information Day for Industry



Welcome and Introduction

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#### Welcome



Welcome to the first Earth Explorer Mission Information Day for industry

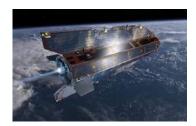
 This is the first time we have used a Mission Information Day to drive a "Science First" approach to Earth Explorer Mission Development

Dedicated to EE11

#### **Science First and Science Driven**

esa

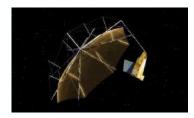
- The Explorers are research missions
   designed to address key scientific challenges
   identified by the Earth science community
- ESA has a series of mission based on World class Science and demonstrating breakthrough technology in observing techniques.
- The Earth Explores are user-driven process of mission selection has given the Earth science community an efficient tool for advancing the understanding of the Earth system.
- The science questions addressed also form the basis for development of new applications of Earth observation.



GOCE: ESA's gravity mission



Swarm: ESA's magnetic field mission



Biomass: ESA's forest mission



**EE10** 

SMOS: ESA's water mission



Aeolus: ESA's wind mission



FLEX: ESA's photosynthesis mission



**EE11???** 

CryoSat: ESA's ice mission



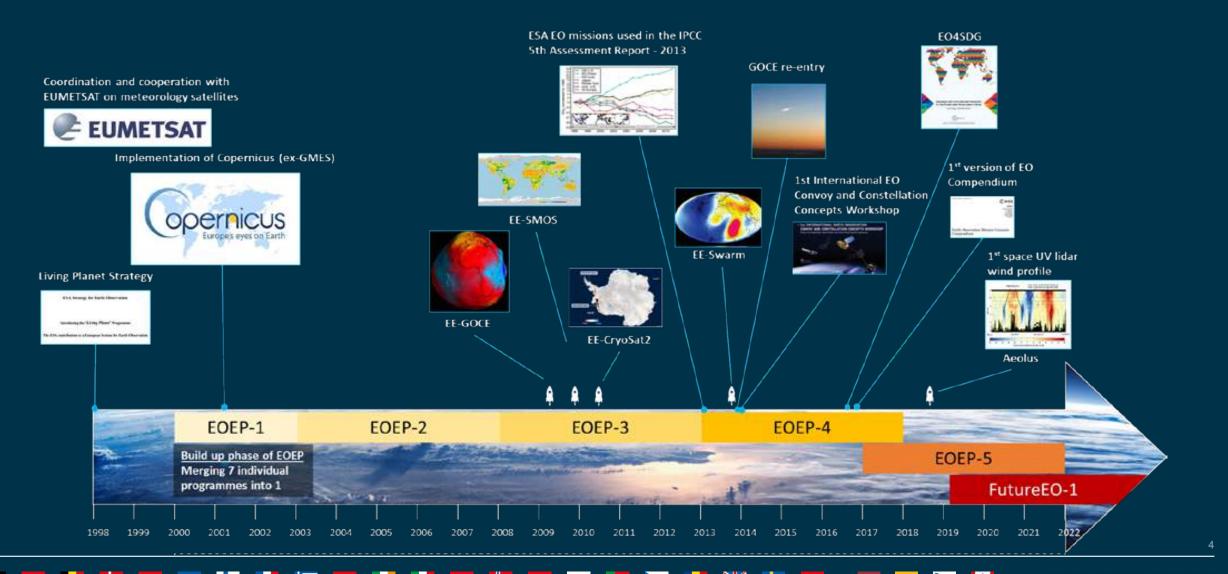
EarthCARE: ESA's cloud and aerosol mission



EE9 ESA's Far-infrared Outgoing Radiation Understanding and Monitoring (FORUM)

# Looking back – looking forward More than 20 years of successes – From EOEP to FutureEO

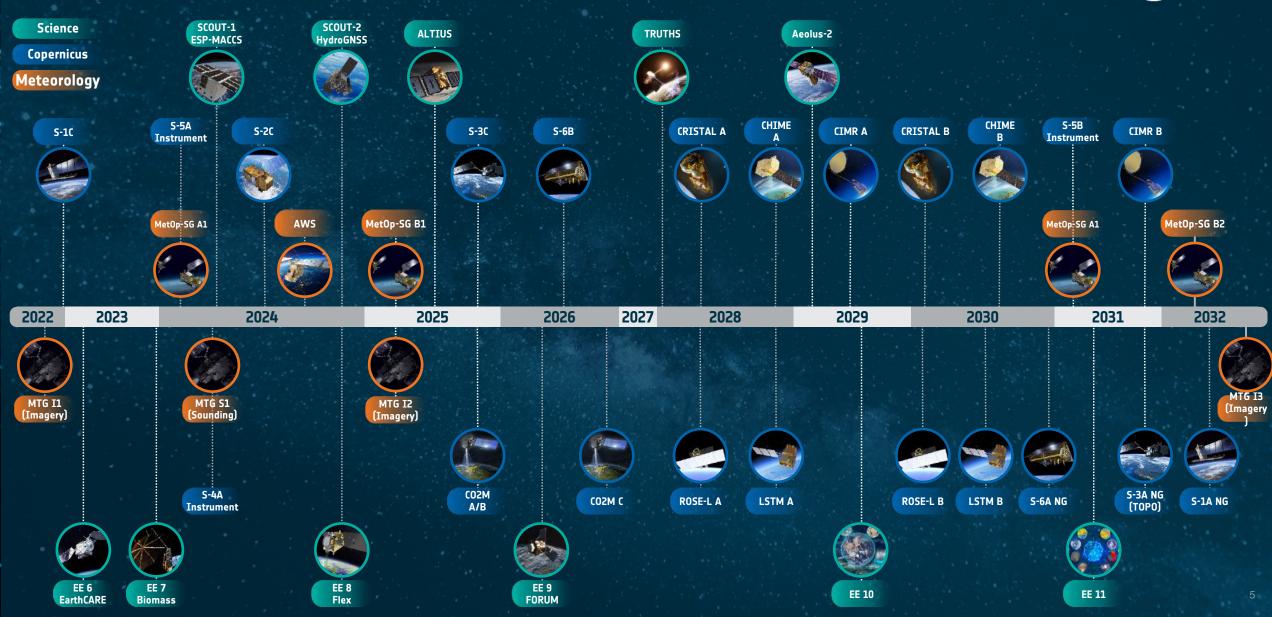




### Planned EO Satellite Launches 2022 - 2032



→ THE EUROPEAN SPACE AGENCY





# Earth Explorer 11 in a nutshell



- World class Science driven mission
- Large-class mission addressing EO science challenges to be launched in the 2031/2032 timeframe
- Can cover any Earth Science topic relevant to the FutureEO Programme, in accordance with the Earth Observation Science Strategy for ESA
- Must demonstrate scientific excellence and innovative technologies by employing novel approaches to provide new scientific insights
- Mission candidates will move forwards from the proposed ideas on the basis of their innovation and scientific excellence.



#### **EE11 Milestones and Schedule**



Activity	Date
Release of the EE11 Call	25 May 2020
Letter of Intent deadline	18 September 2020
Letter of Intent Workshop	5 October 2020
Proposal submission deadline	4 December 2020
Evaluation of submitted proposals via peer-review panels:	December 2020-April 2021
ACEO EE11 recommendation	May-21
PB-EO – selection of 4 candidates to enter Phase 0	10 June 2021
ACEO EE11 recommendation	Q3 2023
PB-EO – selection of two candidates to enter phase A	Q4 2023
EE11 User Consultation Meeting	Q2 2025
ACEO EE11 selection recommendation	Q2 2025
PB-EO – selection for implementation	Q3 2025
CM25 - ESA Council Meeting at Ministerial Level	Q4 2025
EE11 launch	2031/2032

We are here today

# Purpose of the Meeting



 The purpose of the meeting is to: "... To present the new mission candidates and initiate a dialogue to clarify the mission visibility of the mission concepts ("Science First" approach)..."

 This is not a meeting to discuss mission selection, programmatic arrangements, costs or upcoming contractual opportunities – please don't ask questions on these topics – they will not be answered