

Earth Explorer 11 Mission Information Day for Industry



Welcome and Introduction

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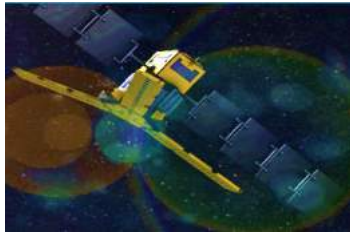
- Welcome to the first Earth Explorer Mission Information Day for industry
- This is the first time we have used a Mission Information Day to drive a “Science First” approach to Earth Explorer Mission Development
- Dedicated to EE11

Science First and Science Driven

- 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.



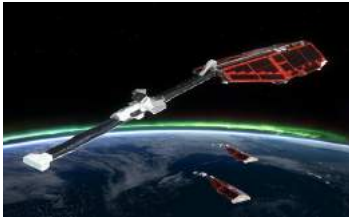
GOCE:
ESA's gravity mission



SMOS:
ESA's water mission



CryoSat:
ESA's ice mission



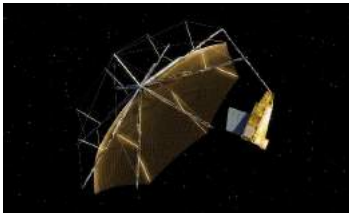
Swarm:
ESA's magnetic field mission



Aeolus:
ESA's wind mission



EarthCARE:
ESA's cloud and aerosol mission



Biomass:
ESA's forest mission



FLEX:
ESA's photosynthesis mission



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



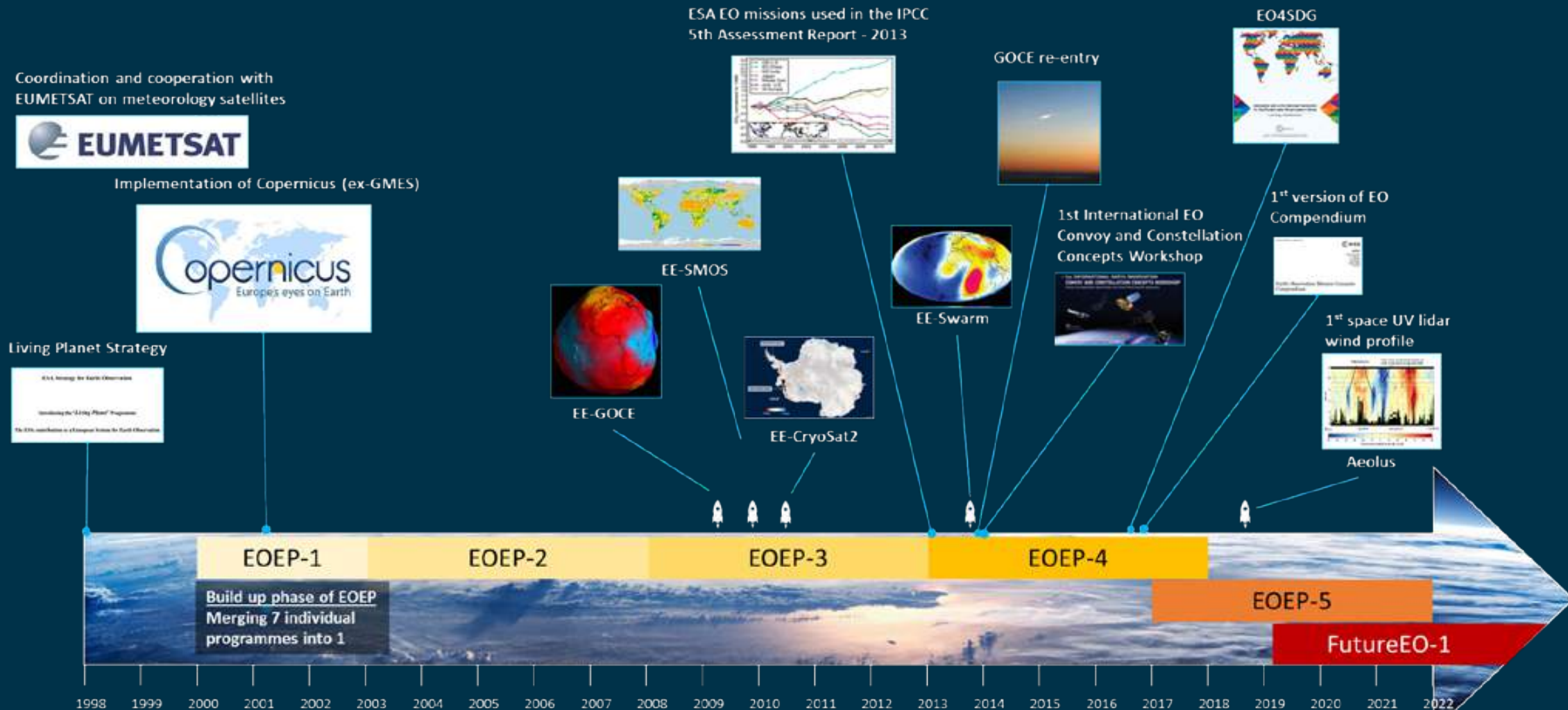
EE10



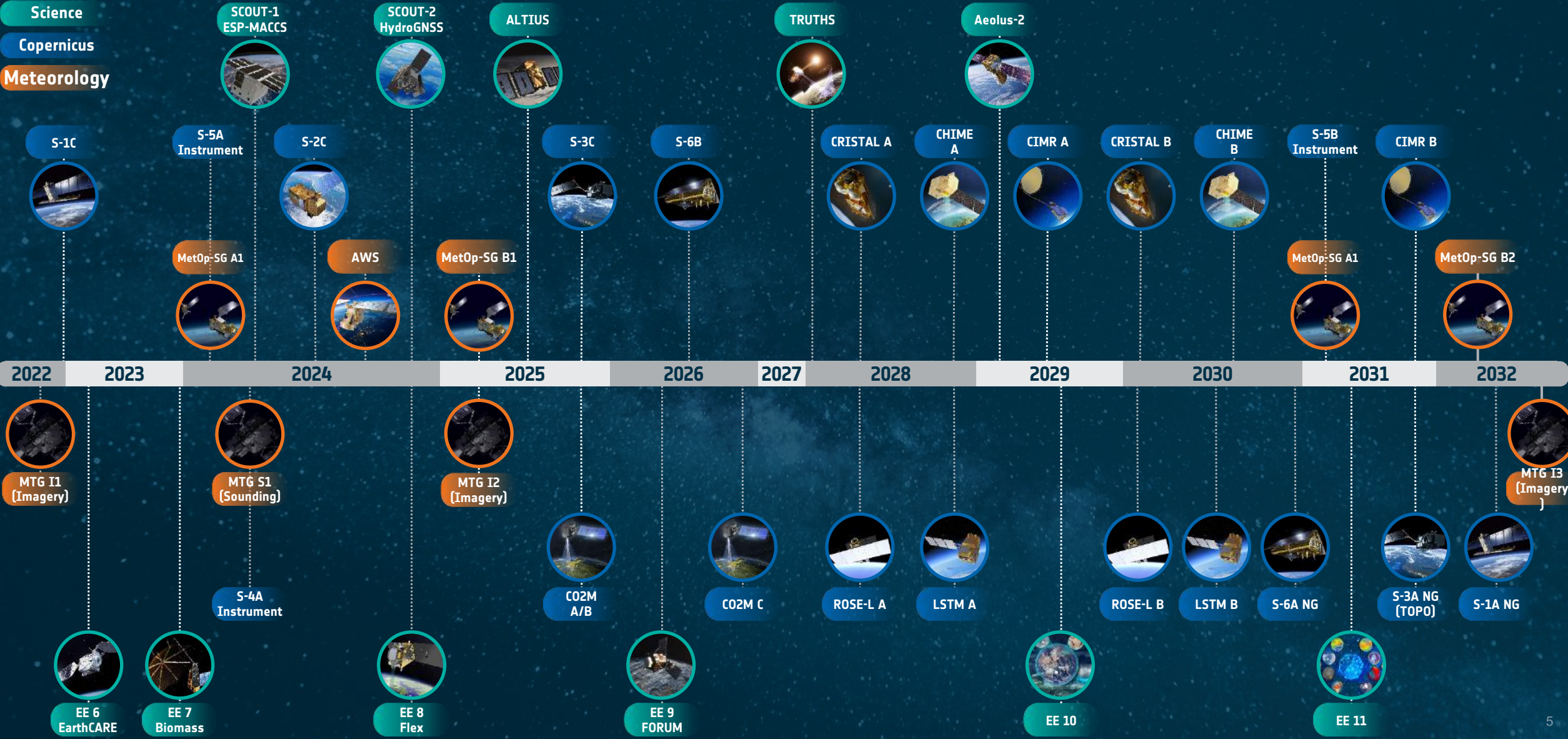
EE11???

Looking back – looking forward

More than 20 years of successes – From EOEP to FutureEO



Planned EO Satellite Launches 2022 - 2032





EE11

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.



- 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