## The ESA Earth Explorer 11 Call for Mission Ideas

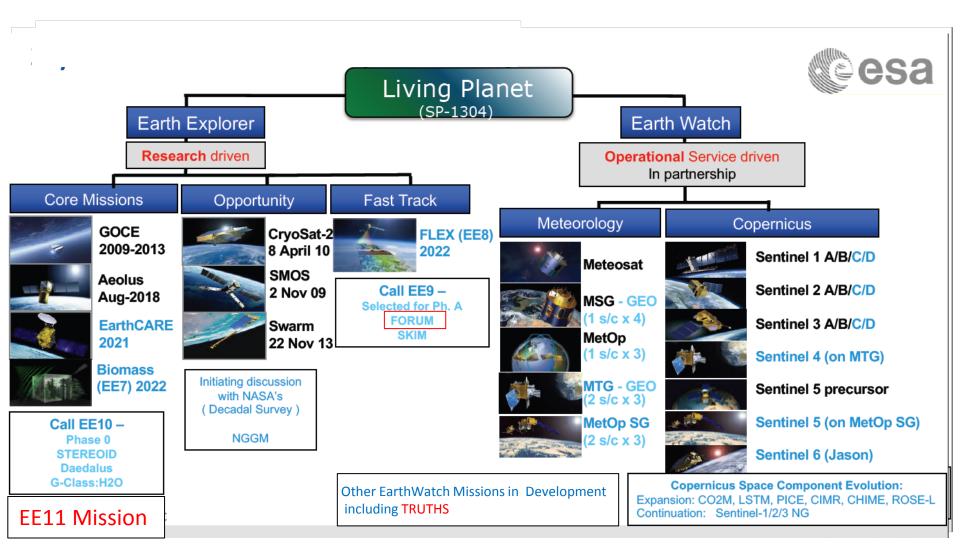
A Brief Introduction

Refer to ESA Documentation for Definitive Information!

# The ESA Call for Earth Explorer 11 Mission Ideas

- Call released in May 2020, part of the ESA Future EO-1 Programme
- EE11 will be a large-class EO science mission to be launched ~2031/2032
  - The 5<sup>th</sup> ESA EE Core Mission, following GOCE, Aeolus, EarthCare, BIOMASS and EE10 (3 candidates)
- Addresses priorities in the ESA Earth Observation Science Strategy
- Mission candidates will be selected on the basis of their innovation and scientific excellence
- Full information from the ESA call website:
  - https://eopro.esa.int/earth-explorer-mission-11-mission-ideas

### Earth Explorer 11 Context



#### **EE11 Boundary Conditions**

- Overall cost cap of 450 M€, to end of commissioning phase
  - 250M€ strict target for all industrial development costs for the space segment
- Technology and Scientific Readiness level
  - Evidence for the current Science Readiness Level (SRL) and Technology Readiness Level (TRL) shall be provided in the proposal
  - SRL 4 by end of Phase 0; SRL 5 achievable by end of Phase A.
  - TRL 5 achievable by end of phase B1
- In-kind contributions from ESA Member States (incl. Canada and Slovenia) are allowable, but not from non-ESA states
- Launch on Ariane 6 or Vega, 2031/32 timescale
- Implemented in accordance with ESA rules and standards

### **Deadlines and Schedule**

Activity	Date
Release of the EE11 Call	25 May 2020
Letter of Intent deadline	18 September 2020, 12:00 CET
Letter of Intent Workshop	5 October 2020
Proposal submission deadline	4 December 2020, 12:00 CET
Evaluation of submitted proposals via peer-	December 2020-April 2021
review panels	
ACEO EE11 recommendation	April/May 2021
PB-EO – selection of three candidates to	June 2021
enter Phase 0	
ACEO EE11 recommendation	Q3 2023
PB-EO – selection of two candidates to enter	Q4 2023
phase A	
EE11 User Consultation Meeting	Q2 2025
ACEO EE11 recommendation	Q2 2025
PB-EO – selection for implementation	Q2 2025
EE11 launch	2031/2032

# UKSA Support for Preparation of EE11 Mission Concepts

- UK Space Agency has agreed that some funding will be available for the development of EE11 mission proposals
  - Up to 5 proposals will be supported (tbc)
- Funding to allow
  - dedicated effort for development of EE11 proposal
  - Industrial support for improved mission concept and mission cost information
  - Review of proposal in advance of submission by UK team
- Prospective mission proposal teams will need to apply for UKSA funding
  - Full details of the competition will be released as soon as possible