

Living Planet Symposium (LPS/2022)

Bonn

24-May-2022

The Copernicus Long-Term Scenario (LTS)

Dr. Nicolaus Hanowski
European Space Agency EOP-G

- Main elements of the CSC Architecture
- ESA Document
- Coordinated with the Commission and EUMETSAT
- Reference for other formal documents
- Includes established and planned items
- Includes opportunities and visionary elements
- Covers EU and ESA contributions to CSC
- Presented to bodies (PB-EO and EU SPC-CC) for consultation
- A “living” document
- 10 revisions in 6 years - currently 42 pages and 12 chapters

ESA Unclassified – For ESA Official Use Only

ESA/PB-EO(2022)39
Paris, 5 May 2022
(Original: English)

EUROPEAN SPACE AGENCY

EARTH OBSERVATION PROGRAMME BOARD

“The next phase of Copernicus”

Copernicus Space Component (CSC) Long Term Scenario

May 2022

Summary

The EU Space Programme Regulation provides the mandate for ESA to coordinate the Copernicus Space Component (CSC), its implementation and its evolution on the basis of user requirements coordinated by the European Commission, which has the overall responsibility for the implementation of the programme. This Long-Term Scenario (LTS) describes the main elements of the CSC architecture. It has been generated in close interaction with the Commission and EUMETSAT. The future CSC architecture is intended to meet expectations and needs in terms of stability and continuity while increasing the quantity and quality of the CSC products and services. In addition, emerging and urgent needs for new types of observations are also addressed. The LTS is also opening up to solutions provided by NewSpace companies and is generally reflecting on emerging EO trends relevant to Copernicus.

This version of the CSC LTS builds on the version published on the occasion of 5th Joint and Informal PB-EO/EU SPC-CC meeting of June 2021.

Contribution Agreements for Copernicus between the Commission and ESA as well as between the Commission and EUMETSAT covering the years from 2021 to 2027 entered into force in the summer of 2021. The EU-ESA Contribution Agreement was amended in April 2022 through a COM-ESA Joint Decision. As set out in the Contribution Agreement, the LTS, once amended in accordance with the COM-ESA Joint Decision, will continue to serve as a framework planning document for the CSC evolution. It will be updated further at regular intervals.

Required action and next steps

Delegations are invited to take note of this document and to provide comments.

1. Motivation
2. Current Capacity and Aspirations for the Future CSC
3. Principles for the LTS
4. Requirements and Assumptions for the LTS
5. CSC Measurement Families
6. CSC Ground Segment and Operations
7. CSC Contributing Missions and Future CCM Data Management
8. The Role of European NewSpace for the NG Sentinels
9. Governance and Implementation
10. ESA CSC-4 Funding Approach
11. CSC Schedule Overview
12. CSC Costs and Funding needs

