Rune Floberghagen
Head of the Science, Applications and Climate Department

Welcome
Introduction

Welcome to the ESA ESRIN Establishment

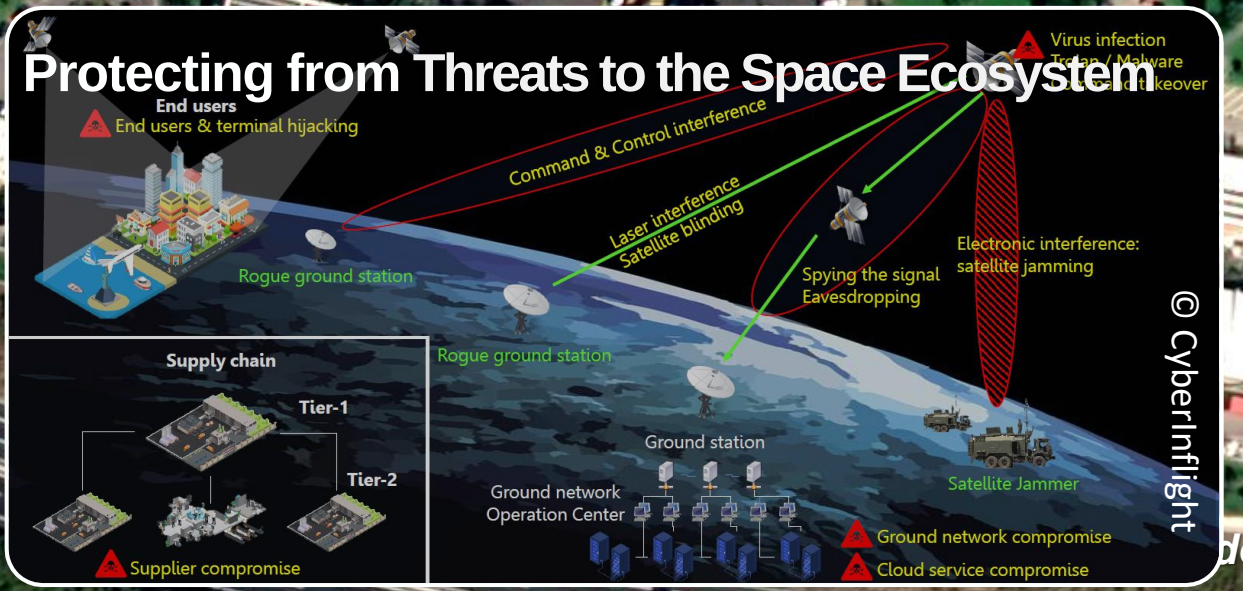
- **Earth Observation**
- Space transportation
- Science Hub
- NEO Coord. Centre
- ESA Security Office
- Corporate IT
- Comms, Archives
- Contracts, Personnel
- Site Management

ESA's EO Vision

Taking the Pulse of our Planet

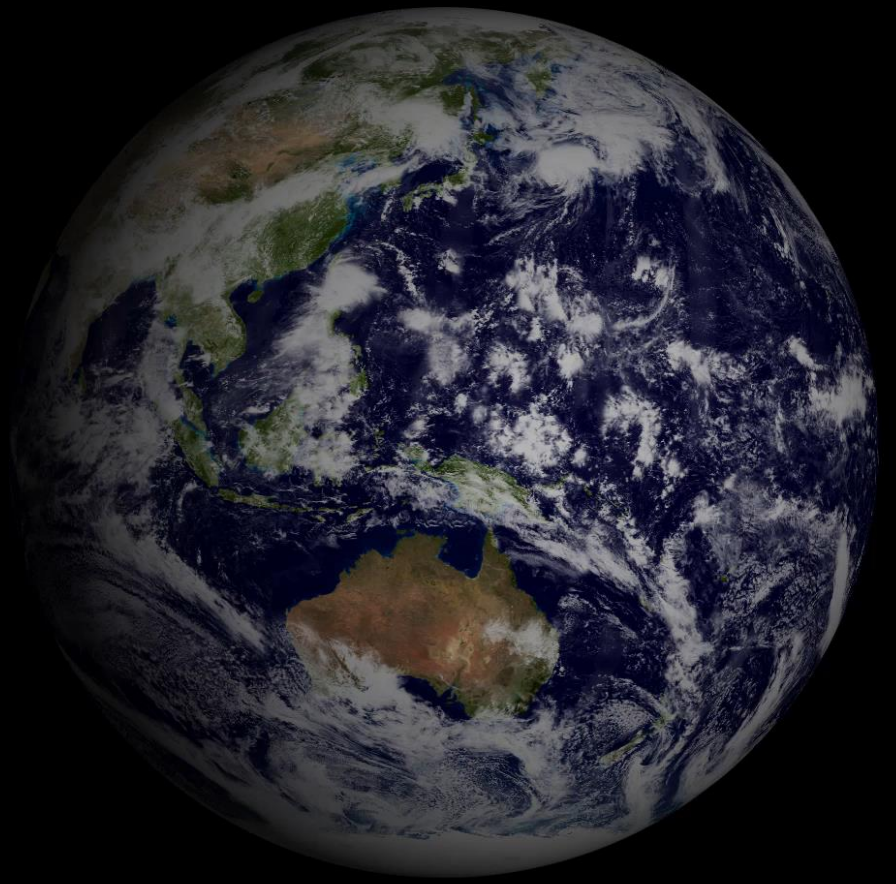
NEOCC, a core element of ESA's Planetary Defence Office

ESRIN hosts the VEGA European Small Launcher Team - Vega-C Successfully launched July '22



EO centre for cooperation on Earth system science

Earth Observation



Global data to address global and inter-connected challenges

→ THE EUROPEAN SPACE AGENCY

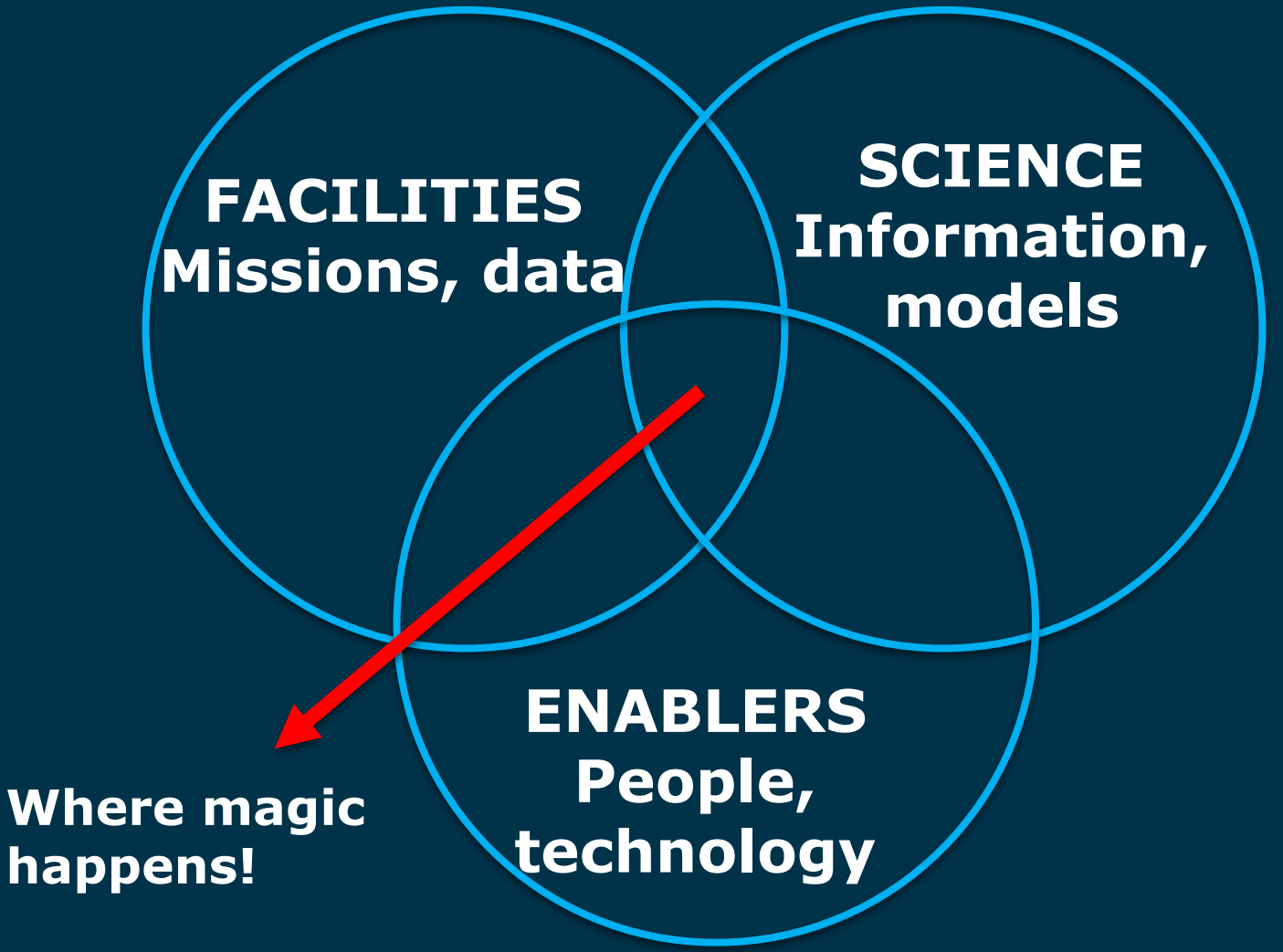
collaboration

complementarity

“passion”

synergy

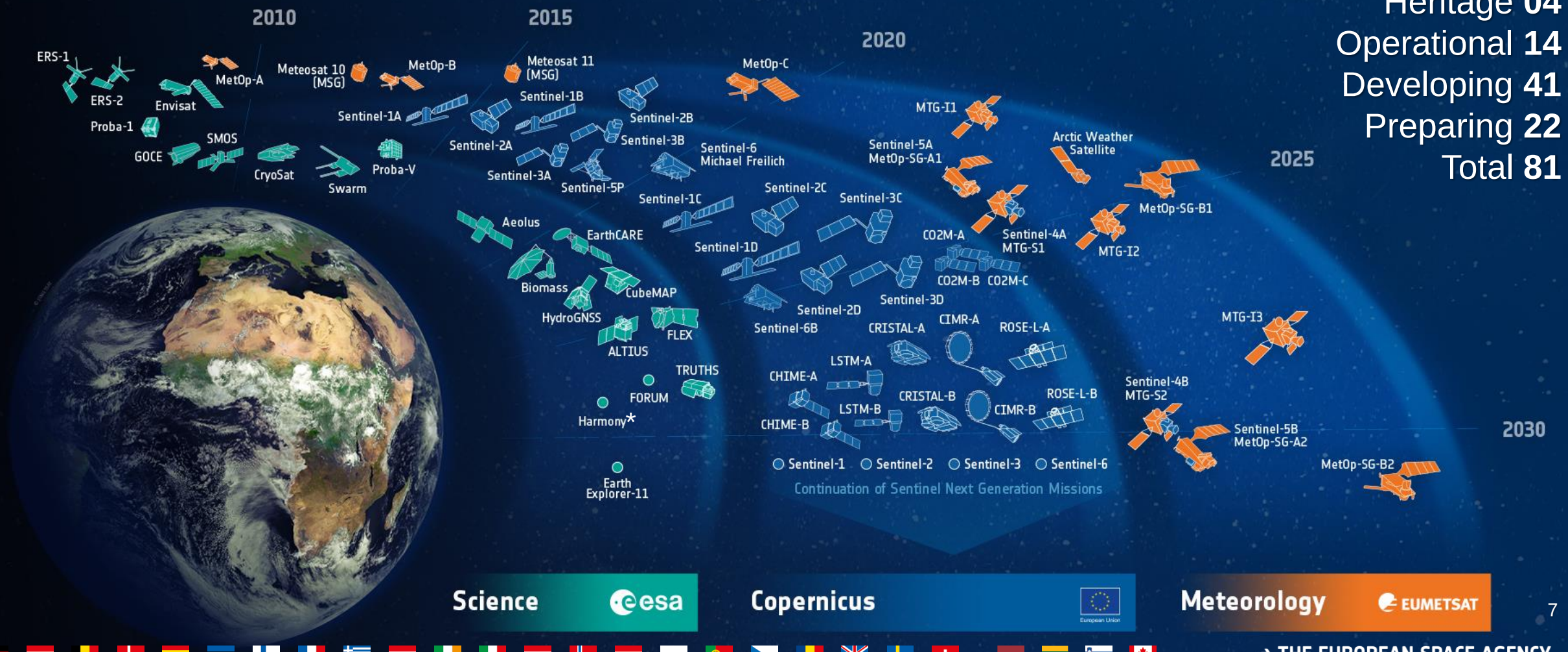
Ingredients we need



ESA Develops world-class EO systems with European and global partners to address Scientific & Societal challenges

Satellites

Heritage **04**
Operational **14**
Developing **41**
Preparing **22**
Total **81**

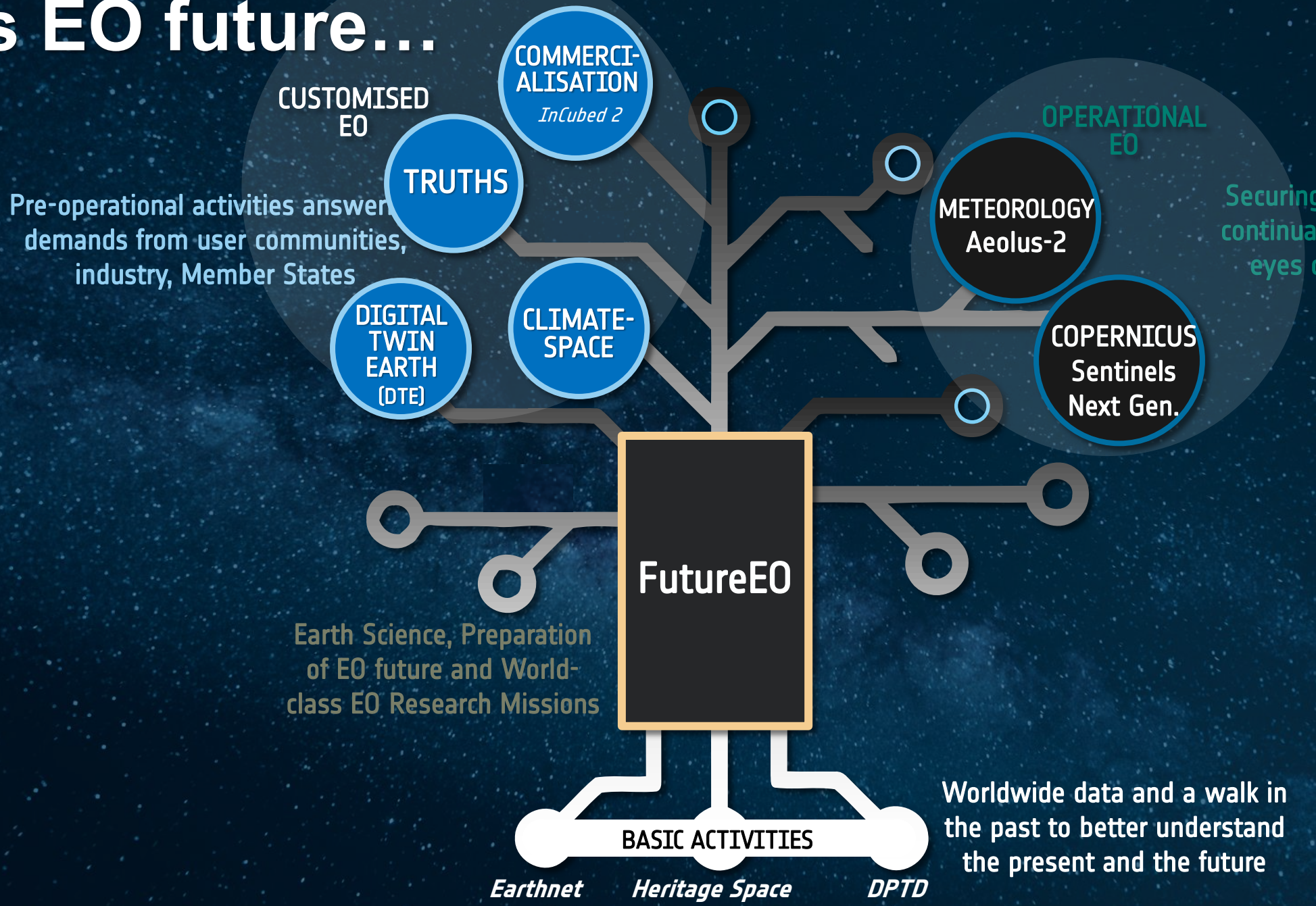


Science

Copernicus

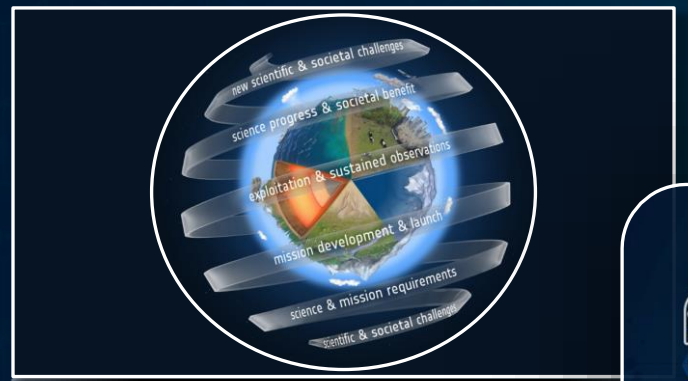
Meteorology

ESA's EO future…

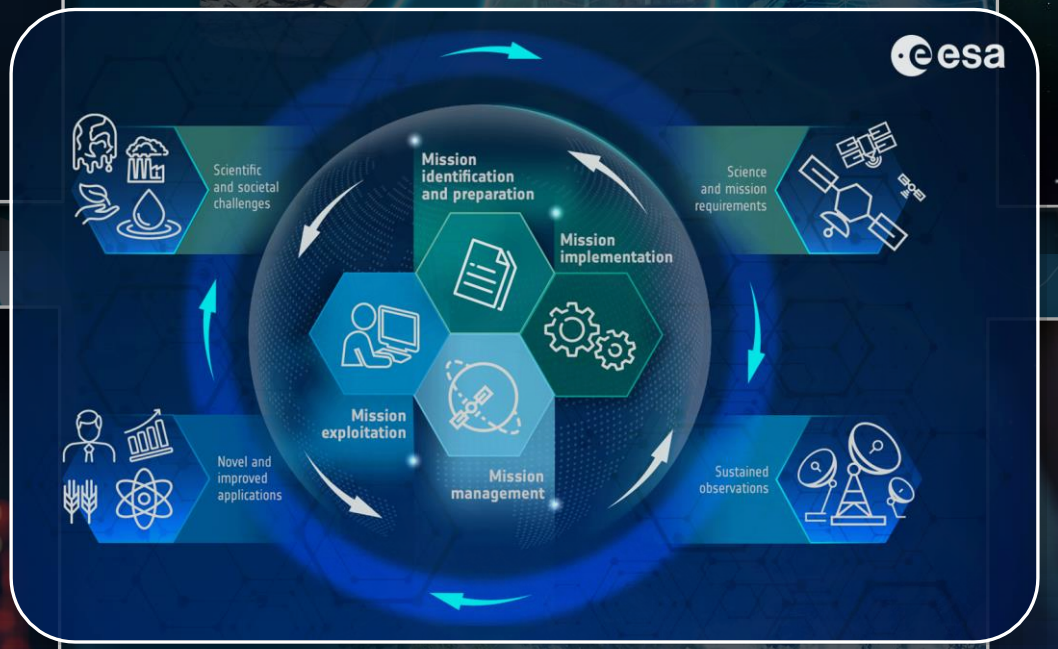


FutureEO - ESA's core Earth Observation R&D programme since 2000

Earth Science, Preparation of EO future and World-class EO Research Missions



Foundations and Concepts



Research Missions

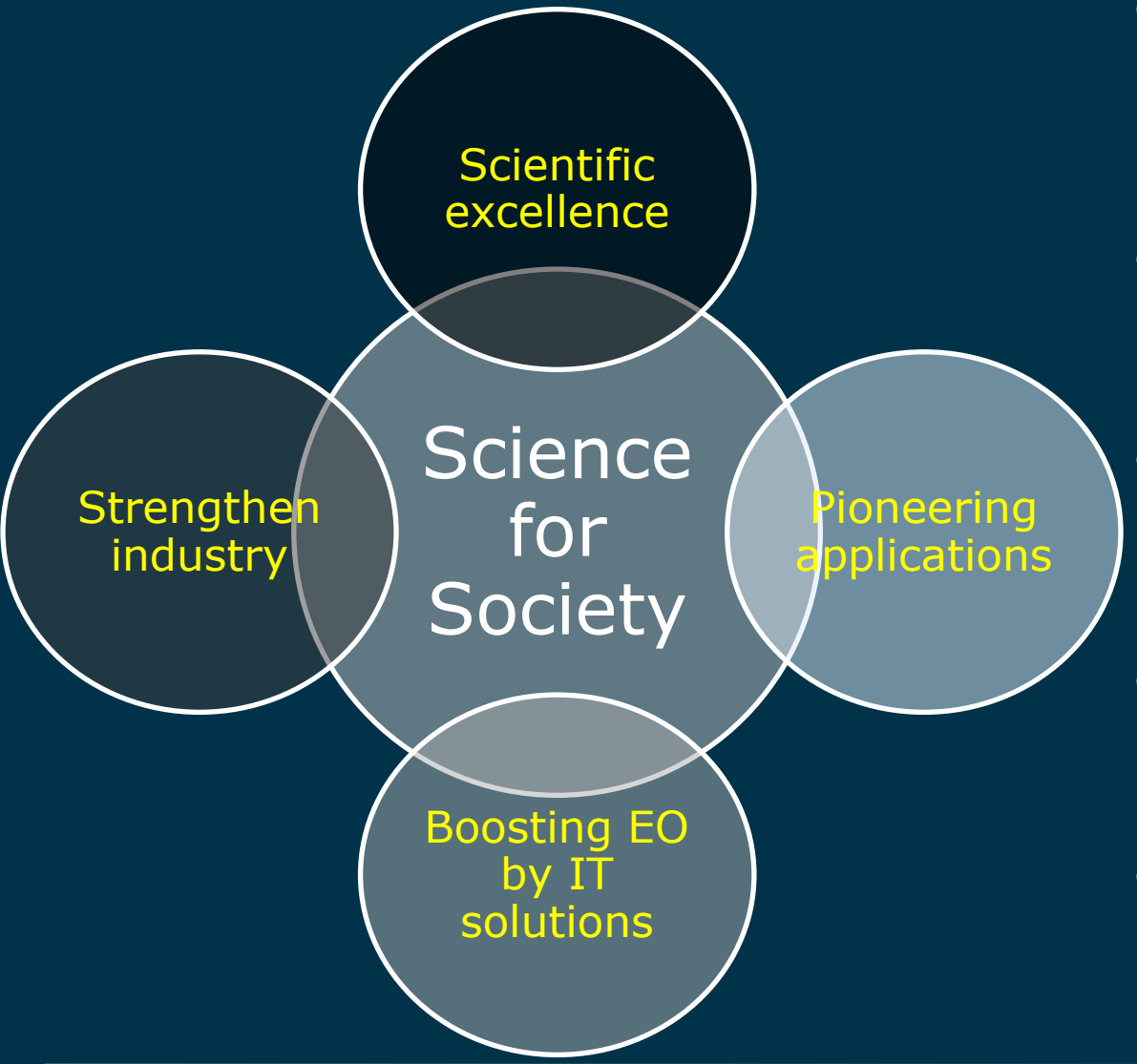
Mission Management

Earth Science for Society

The only ESA (EO) optional programme bringing together all Member States

The Earth Observation locomotive at the Next Ministerial (CM22)

Science for Society – Core Elements



- **Deliver scientific excellence** in EO, maximizing the scientific impact of European EO capabilities and advancing our fundamental understanding of the Earth and system in close collaboration with EC.
- **Pioneer innovative and reliable Earth Observation applications** to support international policies on the environment and sustainable development.
- **Strengthen European EO industry** competitiveness through new technologies, stimulating innovative approaches to open new market opportunities.
- **Making full leverage of IT advances** ensuring competitive R&D cycle generating information EO-derived information in an agile and rapid innovation process.
- **Maximising the impact of existing EO** capacity (EE, Sentinels, National Missions) and preparing for a fast exploitation of the next Sentinel missions

We are not doing this alone....

The European Commission's Deputy Director General for Research and Innovation, Patrick Child and ESA's Director of Earth Observation Programmes, Josef Aschbacher at the signing ceremony, January 2020.

"…. to jointly advance Earth system science and its contribution to respond to the global challenges that society is facing in the onset of this century"

Joint EC-ESA Earth System Science Initiative

ESA

FutureEO

ESA new Science and Innovation Earth Observation Programme

EC-RTD

Horizon Europe

New EU Research and Innovation Framework Programme

- ❑ Advance EO capabilities, Advance Earth System Science, and predictive capabilities
- ❑ Accelerate science and innovation
- ❑ Maximize scientific impact of Earth observation
- ❑ Transfer results into solutions for society
- ❑ Promote international cooperation

We are taking action!

- *Open Innovation for EO Programmes* workshop is a crucial input for the Agency to further define its open science framework
- ESA EO has (admittedly) so far lacked a solid framework for its activities in this area → but we are catching up fast!
- Openness is traced from the top-level, ESA-wide Agenda 2025: “fast innovation”, “agile framework for innovation”, “open innovation approach”
- Ties with Earth system science, and hence the communities beyond satellite-based EO, are strong and powerful
- Beyond a white paper on a Framework for Open Innovation, we are at the same time working on a new EO Science Strategy

We are eagerly awaiting the output from this workshop

Thank you!

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