



living planet symposium | BONN

23-27 May 2022

TAKING THE PULSE
OF OUR PLANET FROM SPACE



EC-ESA Earth System Science Initiative and its multi-natural hazard component

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25th May 2022

ESA UNCLASSIFIED – For ESA Official Use Only



→ THE EUROPEAN SPACE AGENCY

ESA and EC (DG-RTD) collaboration agreement



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



A common goal

"... 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

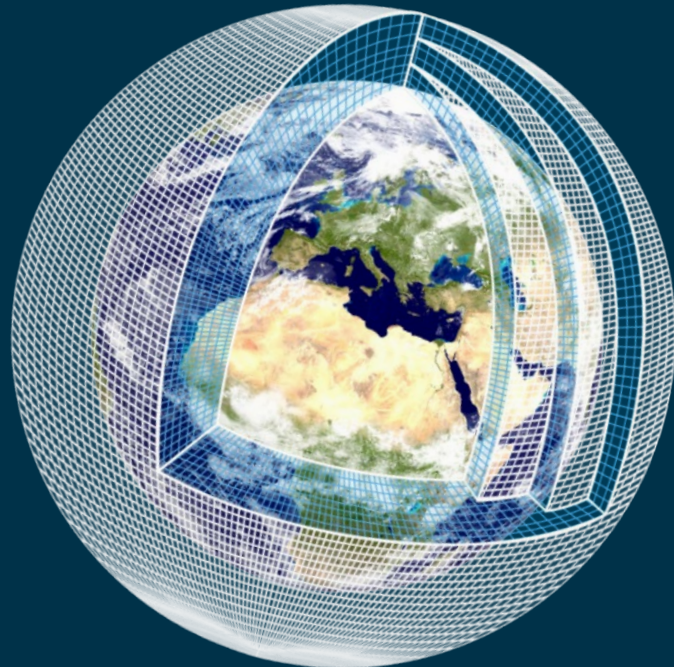
ESA new Science and Innovation
Earth Observation Programme



EC-RTD

Horizon Europe

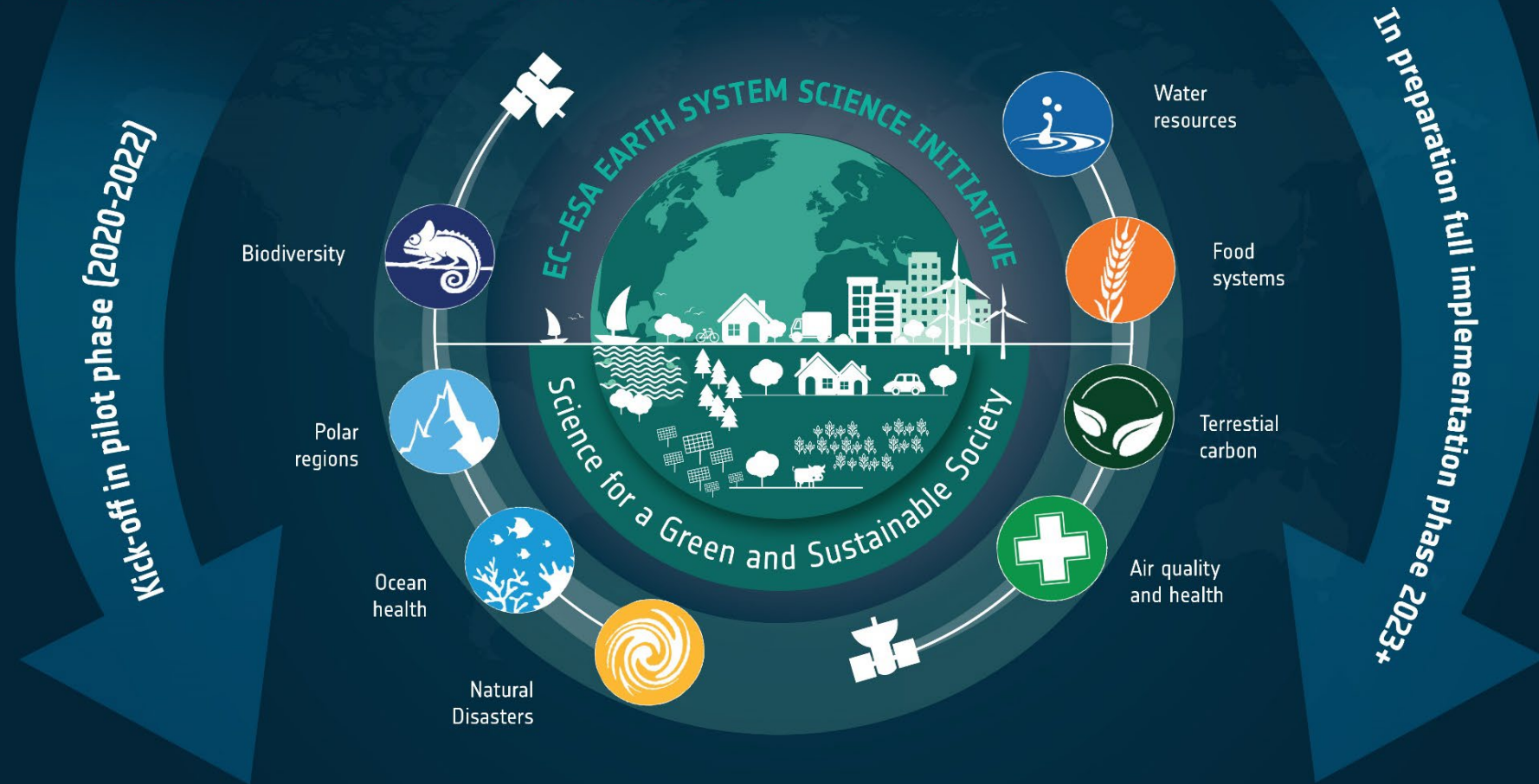
New EU Research and Innovation
Framework Programme



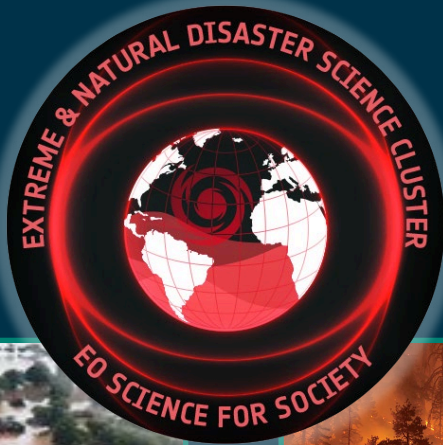
- The initiative will be implemented through a set of coordinated activities and collaborative projects funded respectively by ESA FutureEO and EC Horizon Europe.
- Fostering networking and scientific collaboration across these activities and EC funded projects.
- **Coordinated Work Plan under preparation to be launched in 2023.**



FLAGSHIPS ACTIONS



Observing and Understanding Multi-Hazards, Compound and Cascade Events



New ITT - Addressing the major lack of understanding of multi-hazards, compound and cascade effects of multiple inter-dependent hazards (e.g., hydro-climatic extremes) that jointly contribute to multiply societal or environmental risk.

A better understanding and characterization of multi-hazards, including aspects related to attribution, vulnerability, risk and impact are required.

1MEuro – Q3 2022



Come to discover the joint scientific plans of ESA and EC

Agora Europa: Thursday 25th at 10:50