

# living planet symposium

BONN  
23–27 May  
2022

TAKING THE PULSE  
OF OUR PLANET FROM SPACE



## Status of Horizon Europe and opportunities for collaboration

Jean Dusart, European Commission – DG Research and Innovation

25/05/2022



#HorizonEU



# HORIZON EUROPE

---

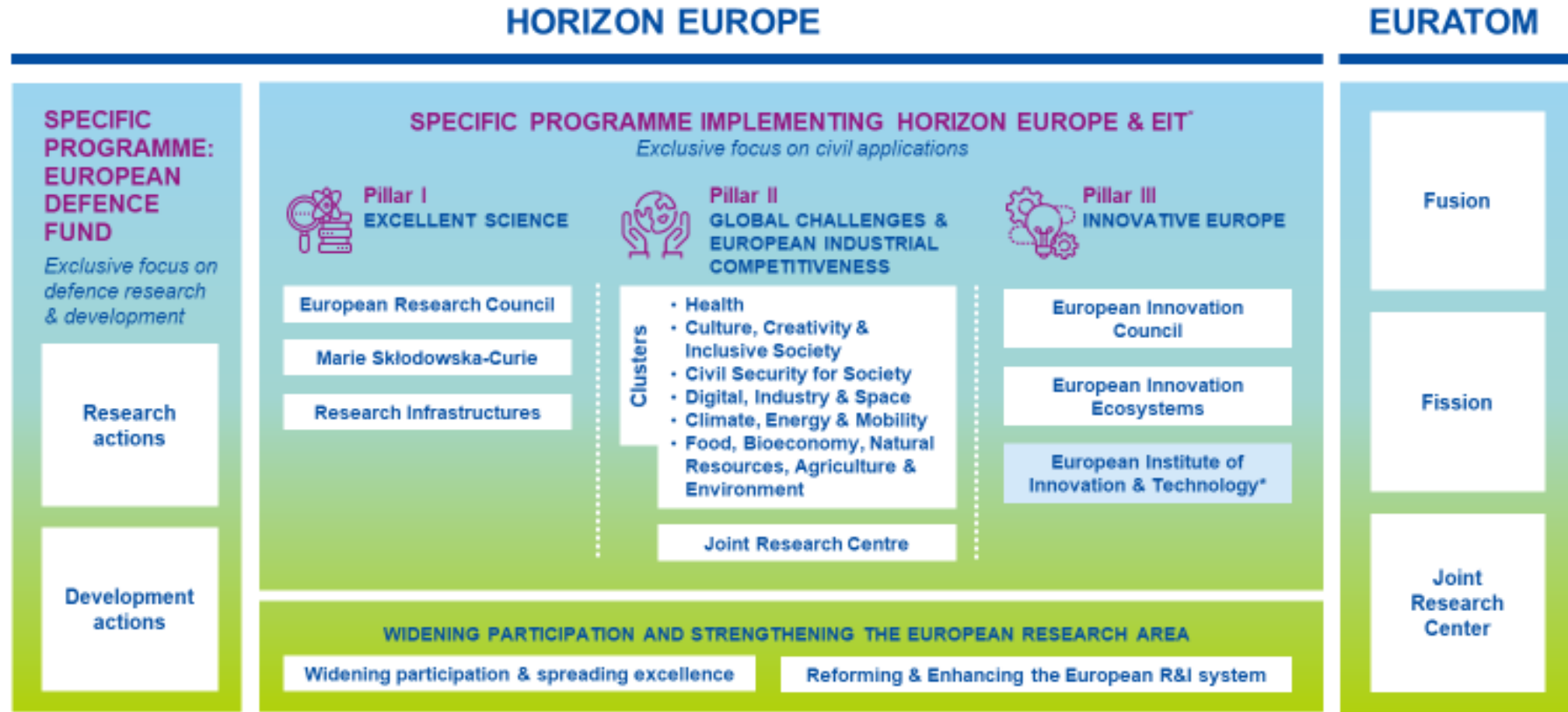
THE EU  
RESEARCH &  
INNOVATION  
PROGRAMME 2021 – 27

---

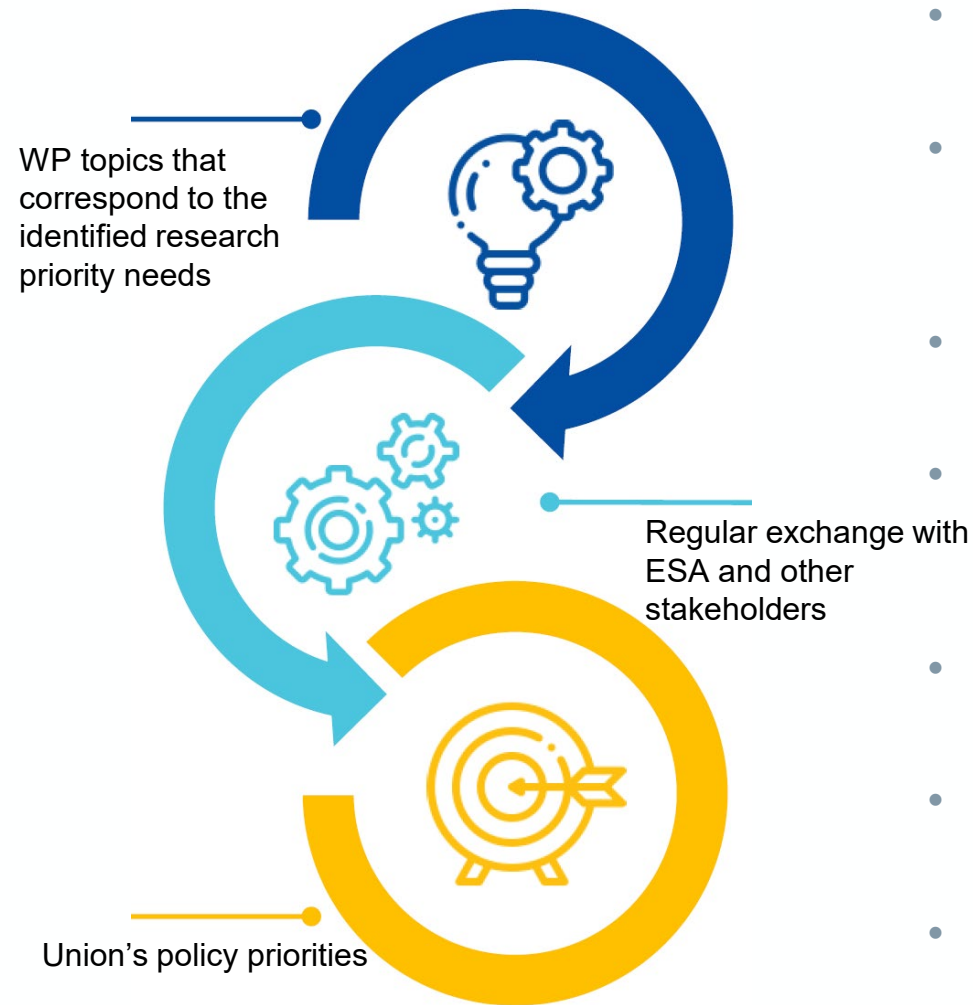


This presentation is based on the political agreement of 11 December 2020 on the Horizon Europe. Information on some parts is pending revision.

19 March 2021



\* The European Institute of Innovation & Technology (EIT) is not part of the Specific Programme



- **HORIZON-CL6-2021-BIODIV-01-03: Understanding and valuing coastal and marine biodiversity and ecosystems services**
- **HORIZON-CL6-2021-BIODIV-01-04: Assess and predict integrated impacts of cumulative direct and indirect stressors on coastal and marine biodiversity, ecosystems and their services**
- **HORIZON-CL6-2022-BIODIV-01-01: Observing and mapping biodiversity and ecosystems, with particular focus on coastal and marine ecosystems**
- **HORIZON-CL6-2021-GOVERNANCE-01-14: User-oriented solutions building on environmental observation to monitor critical ecosystems and biodiversity loss and vulnerability in the EU**
- **HORIZON-CL6-2021-CLIMATE-01-01: Improved understanding, observation and monitoring of water resources availability.**
- **HORIZON-CL6-2021-CLIMATE-01-03: Key oceanic and polar processes driving regional & global climate change**
- **HORIZON-CL6-2022-GOVERNANCE-01-07: New technologies for acquiring in-situ observation datasets to address climate change effects**



## Examples of topics of interest to the EO community in the WP2022 (**DEADLINE 27 SEPTEMBER 2022**)

HORIZON-MISS-2022-CLIMA-01-01 User driven Applications and tools for regional and local Authorities, and other end users focusing on climate Impacts, data and knowledge (RIA – EUR 6 million)

HORIZON-MISS-2022-CLIMA-01-06: Testing and demonstrating transformative solutions on climate resilience, mainstreaming nature based solutions in the systemic transformation (IA – EUR 88,32 million)

The Mission Adaptation to Climate Change aims at supporting around 150 regions and communities in Europe towards reaching climate resilience by fostering the development of innovative solutions.

## Important steps

- **May 2022: Opening of Horizon Europe WP 2022 Mission calls**
- **17-18 May 2022: EU Missions info-days:** ([https://ec.europa.eu/info/research-and-innovation/events/upcoming-events/horizon-europe-info-days/eu-missions\\_en](https://ec.europa.eu/info/research-and-innovation/events/upcoming-events/horizon-europe-info-days/eu-missions_en))
- **7 June 2022: First Mission Forum** (<https://cor.europa.eu/fi/events/Pages/forum-mission-adaptation-climate-change-7-june-2022.aspx>)
- **December 2022: Signature of grants and first Mission projects**



This Mission will provide a systemic approach for the restoration, protection and preservation of our ocean, seas and waters.

The objective of this Mission is to restore, protect and preserve the health of our ocean, seas and waters by 2030.

## Examples of topics of interest to the EO community in the WP2022 (**DEADLINE 27 SEPTEMBER 2022**)

HORIZON-MISS-2022-OCEAN-01-01: European Blue Parks – Protection and restoration solutions for degraded coastal and marine habitats (IA – EUR 17 million)

HORIZON-MISS-2022-OCEAN-01-03: Mediterranean sea basin lighthouse - Actions to prevent, minimise and remediate chemical pollution (IA – EUR 17 million)

HORIZON-MISS-2022-OCEAN-01-06: Lighthouse in the Baltic and the North Sea basins – bringing sustainable algae-based products and solutions to the market (IA – EUR 17 million)

HORIZON-MISS-2022-OCEAN-01-07: Integration of biodiversity monitoring data into the **Digital Twin Ocean** (IA – EUR 10 million)

HORIZON-MISS-2022-OCEANCLIMA-01-01: Mission Climate adaptation and Mission Ocean and waters - Joint demonstration for coastal resilience in the Arctic and Atlantic sea basin (IA – EUR 20 million)



The Mission leads the transition towards healthy soils by

- funding an ambitious research and innovation programme with a strong social science component
- putting in place an effective network of 100 living labs and lighthouses to co-create knowledge, test solutions and demonstrate their value in real-life conditions
- developing a harmonised framework for soil monitoring in Europe
- raising people's awareness on the vital importance of soils

Examples of topics of interest to the EO community in the WP2022 (**DEADLINE 27 SEPTEMBER 2022**)

HORIZON-MISS-2021-SOIL-02-02: Validating and further developing indicators for soil health and functions (RIA – EUR 12 million)

HORIZON-MISS-2022-SOIL-01-05: Monitoring, reporting and verification of soil carbon and greenhouse gases balance (RIA – EUR 14 million)

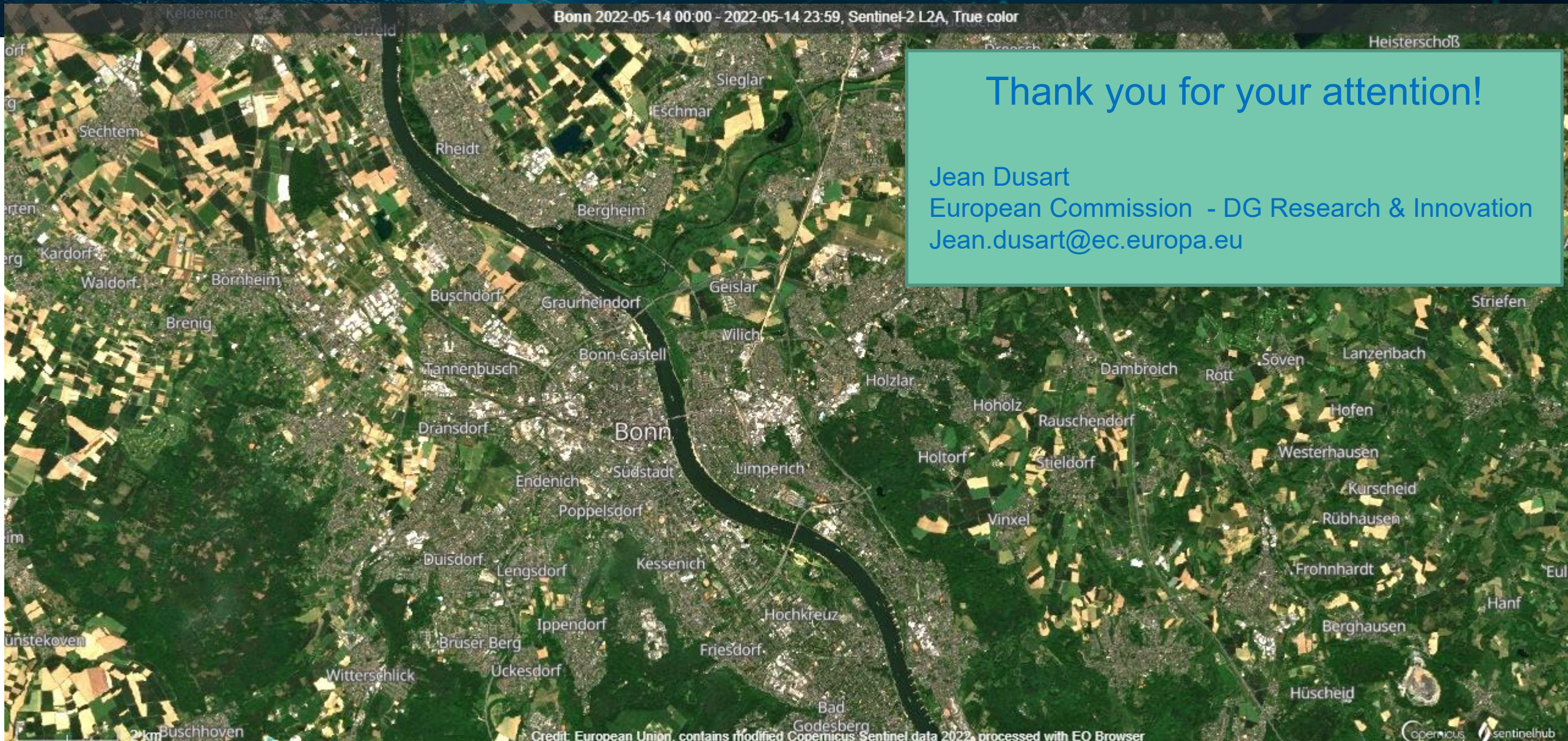
HORIZON-MISS-2022-SOIL-01-06: Network on carbon farming for agricultural and forest soils (CSA – EUR 3 million)

# Horizon Europe WP 2023-2024 drafting process





- The European Commission is collaborating with the European Space agency to bring together major ESA space programmes and science into Horizon Europe in the period 2023-2024 through **ESA-EC coordinated research topics** to support significant breakthrough in climate research.
- Key areas we will work with ESA includes e.g.
  - 1) Climate sciences and responses for the transformation towards climate neutrality
  - 2) Understanding and addressing the main drivers of Biodiversity loss
  - 3) A disaster resilient society for Europe
- For the coming years, **Horizon Europe will be a key instrument** and an engine to accelerate Europe's sustainable recovery from the pandemic, to drive its preparedness and resilience, and to achieve the Green Deal objectives.
- Efforts need to be deployed through a **coordinated and transdisciplinary strategic research, innovation and investment agenda**, resulting from a closer cooperation between scientists and practitioners of the ecological and social transitions.



Thank you for your attention!

Jean Dusart  
European Commission - DG Research & Innovation  
[Jean.dusart@ec.europa.eu](mailto:Jean.dusart@ec.europa.eu)

Credit: European Union, contains modified Copernicus Sentinel data 2022, processed with EO Browser

