



Sustainable Development Goals – Enhanced monitoring through the family of Copernicus Services (SDGs-EYES)

Co-funding EU Horizon SPACE project (KB35-104-005)

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Background and objectives

The EU Horizon SPACE project “SDGs-EYES” (2023-2025) co-develops knowledge and data with stakeholders to monitor SDG targets in the climate-land-water-food domain. Current gaps in SDG indicator monitoring, like the untapped potential of Earth Observation data will be addressed through the development of a product portfolio exploiting different Copernicus components. One of the pilot areas is the Sahel, where vulnerable countries and ecosystems are exposed to climate-related hazards and food security is at risk. The project supports a better understanding of the links between compound climate events and its consequences to food security and livelihoods.

Methods

Cascading risks of climate related events (occurring simultaneously or successively) to food security and livelihoods are complex and not understood well. Tools and insights are needed to better predict threats from compound climate hazards, which will build resilience to vulnerabilities. High-value information from Earth Observation data (Copernicus and other) can be of great importance here. The project pilot will correlate EO data (e.g. climate data, land cover, food security variables) with event datasets (e.g. migratory events, crisis events) and socio-economic data to provide warning reports. This can support adaptive measures to better prepare for risks of climate change. User communities are involved in a co-design process and testing of tools.

Partners

Euro-Mediterranean Center for Climate Change (CMCC Italy, lead), Stichting Wageningen Research (WENR, the Netherlands), SISTEMA (Austria), Meteorological Environmental Earth Observation (MEEO, Italy), European Association of Remote Sensing Companies (EARSC, Belgium), European Union Satellite Centre (SatCen, Spain), T6 Ecosystems (Italy), Azienda Sanitaria Locale To3 (Italy), Programme for the Endorsement of Forest Certification (PEFC, Romania) and Forest Design (FORDES, Romania).

Role of WENR in the project:

Leading the co-design of the data products, liaise with stakeholders and networks, identify gaps and requirements, organize demo workshops.

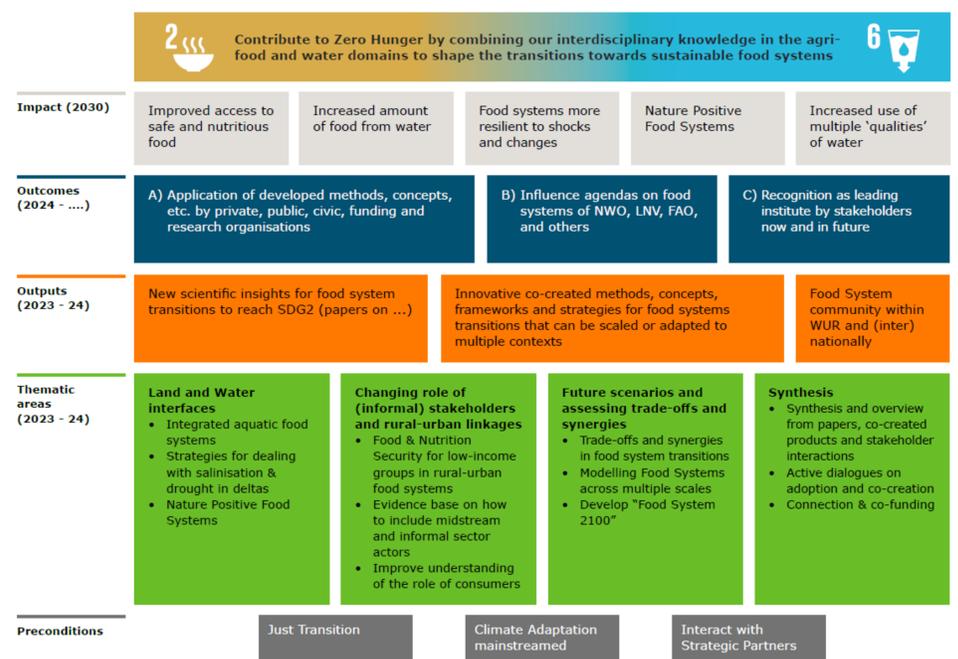
Outcomes

- Better understanding of climate change effects (gradual and shocks) and the impacts to food security and civil security
- Advanced SDG indicator calculation approaches, combining Earth Observation/geospatial data with cutting-edge information technologies
- In 2023 a first prototype design (support tools) will be delivered, based on stakeholder consultation.

Link to Theory of Change KB35

- Connection and co-funding: The project serves as co-funding for the EU project SDGs-EYES and will enable to broaden our international climate-water-food network. Our knowledge on the Food System Approach and climate resilience can be shared and strengthened here.
- Active dialogue and co-creation: WENR is leading the co-design process and the dialogue with stakeholders (e.g. FAO) which will increase our visibility.
- Land – water interfaces: The project will deliver insights in compound climate events (droughts, floods) and consequences related to food insecurity and civil security (stability). This will improve resilience at longer-term in vulnerable regions.

Theory of Change Food and Water Security



References

For more information: <https://sdgs-eyes.eu/>