



Copernicus ENhanced Tools for Anticipative response to climate change in the emergency and securiTY domain

What is CENTAUR?

The Horizon Europe project CENTAUR aims to address societal challenges arising from climate change threats by developing and demonstrating new service components for the **Copernicus Emergency Management Service (CEMS)** and **Copernicus Security Service** – Support to EU External and Security Actions (CSS-SESA). The project focuses on:



Improving situational awareness and preparedness around climate change and its impact on complex emergencies and multi-dimensional security crises.



Anticipating the occurrence and possible knock-on effects of crisis events, contributing to resilience and effective adaptation.



Providing early warning systems which generates alerts when pre-established thresholds for crisis indicators are reached.



Numbers

14 Partners

40 Months

4.9€ Million Budget

8 Use Cases

33 Innovative Indicators

5 Indexes

1 Platform

Application Domains



**Copernicus
Emergency
Management
Service**

Flood-related threats to population, assets and infrastructures in urban areas.



**Copernicus
Security Service
Support to EU External
and Security Actions**

Water and food insecurity as precursors of political instability, conflict and forced displacement



Contact us

info@centaur-horizon.eu



This project has received funding from the European Union's Horizon Europe research and innovation programme under Grant Agreement No. 101082720 - CENTAUR



For Copernicus EMS

- Provides an early warning system which generates alerts when pre-established thresholds for crisis indicators are reached.
- Strengthens post-event response and recovery by improving the capacity to rapidly and accurately assess urban flood extent, estimate damages, support impact mitigation, and increase the effectiveness of recovery actions.

For Copernicus SESA

- Enriches the CSS – SESA current portfolio by integrating new vulnerability and fragility indexes
- Reinforces early warning capacities via the systematic surveillance of early signs and drivers of social unrest, population movements, and conflicts in connection with food and water insecurity.

Consortium

e-geos

AN ASI / TELESPIAZIO COMPANY



www.centaur-horizon.eu



@CENTAUR



@CENTAUR_EU



Contact us

info@centaur-horizon.eu



This project has received funding from the European Union's Horizon Europe research and innovation programme under Grant Agreement No. 101082720 - CENTAUR