

# CENTAUR 1st Online Workshop

## Workshop Concept

The half-day event will focus on global challenges such as food and water security as well as urban floods and how Earth Observation data, Artificial Intelligence and Machine Learning technologies can help mitigating the impacts of climate change.

### ***Urban Floods***

The panel session on urban floods will examine the increasing frequency of flood events in densely populated areas, fuelled by the consequences of climate change as well as rapid urbanisation and soil sealing. The panel will delve into the latest advancements and challenges in forecasting and near real-time monitoring of urban floods, providing participants with a comprehensive overview of current capabilities and limitations, as well as insights into future developments.

### ***Food and Water Security***

As resource scarcity becomes a growing concern, the panel session will focus on early warning systems which can help anticipate and manage risks related to drought, crop failures, and water shortages and mitigate their impact on the social, economic, and political stability of countries. Improved data accuracy and monitoring capabilities are crucial for supporting local authorities and humanitarian agencies in their response to these challenges. Attendees will gain valuable insights into the latest tools and strategies aimed at bolstering resilience against food and water security threats.

### ***Why CENTAUR?***

The [CENTAUR Horizon Europe project](#) is the result of a call focussed on the evolution of the Copernicus services targeting the development of new service components for the Copernicus Emergency Management Service (CEMS) and Copernicus Security Service - Support to EU External and Security Actions (CSS-SESA). It aims to improve situational awareness and anticipatory activities related to crisis events with the ultimate goal of strengthening resilience and adaptation to climate change.

This online workshop is a key milestone in CENTAUR's mission, and will provide a unique forum for collaboration and knowledge exchange among public and private stakeholders. It will also represent an important opportunity to raise awareness, discuss emerging technologies, and strengthen connections, all contributing to improved disaster resilience, early warning and management strategies across Europe and beyond.



Funded by  
the European Union

## Agenda - 21 November 2024, from 9:00 to 12:30 (CET)

Time	Content	Speaker	Affiliation
09:00 – 09:10	Welcome	Gabriel Lazazzara	CENTAUR
09:10 – 09:20	Opening Remarks	Iulia Simion	HaDEA
09:20 – 10:00	<b>Keynote Session:</b> Understanding CENTAUR	Valerio Botteghelli	CENTAUR
10:00 – 10:10	<b>Coffee Break</b>		
10:10 – 11:20	Panel 1 Flood Monitoring in Urban Areas: Challenges and Innovations	Peter Salamon	DG JRC / Copernicus EMS
		Antonella Morgillo	Italian Civil Protection
		Stephen Clandillon	CENTAUR
		Fredrik Wetterhall	ECMWF
		Franck Ranera	ICEYE
11:20 – 12:20	Panel 2 Addressing Food & Water Security: Challenges and Innovations	Yannick Arnaud	SatCen / Copernicus SESA
		Inbal Becker-Reshef	NASA Harvest
		Adrien Detges	CENTAUR
12:20 – 12:30	Closing Remarks	Gabriel Lazazzara	CENTAUR

