



WHY?



55 Million

people globally are affected by drought every year



700 Million

people are at risk of being displaced as a result of drought by 2030



>75%

of people displaced by conflict and violence were living in countries with high or very high vulnerability to climate change at the end of 2024



216 Million

people could be forced to migrate by 2050 due to climate change effects

WHAT?

The overarching objective of CENTAUR is 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). In order to achieve this, the project has been granted a total funding of €4.9 million over a span of 3 years from the Horizon Europe research and innovation programme and the European Health and Digital Executive Agency (HaDEA). The project is focusing 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.

HOW?

The methodology adopts a three-layered approach to enrich the CEMS and CSS-SESA portfolios and improve the capacity to characterise urban floods and water and food insecurity events. The project team has developed a set of conceptual models to create crisis indexes. These indicators are being tested in hot and cold use cases analysing past and current events affecting countries in Europe and Africa. Once these have been validated, they feed into monitoring activities on the CENTAUR platform, which will allow for continuous multinational monitoring for crisis detection and an event-driven monitoring which triggers alerts when indicators reach pre-defined thresholds.

NUMBERS

14 Partners

40 Months

4.9€ Million Budget

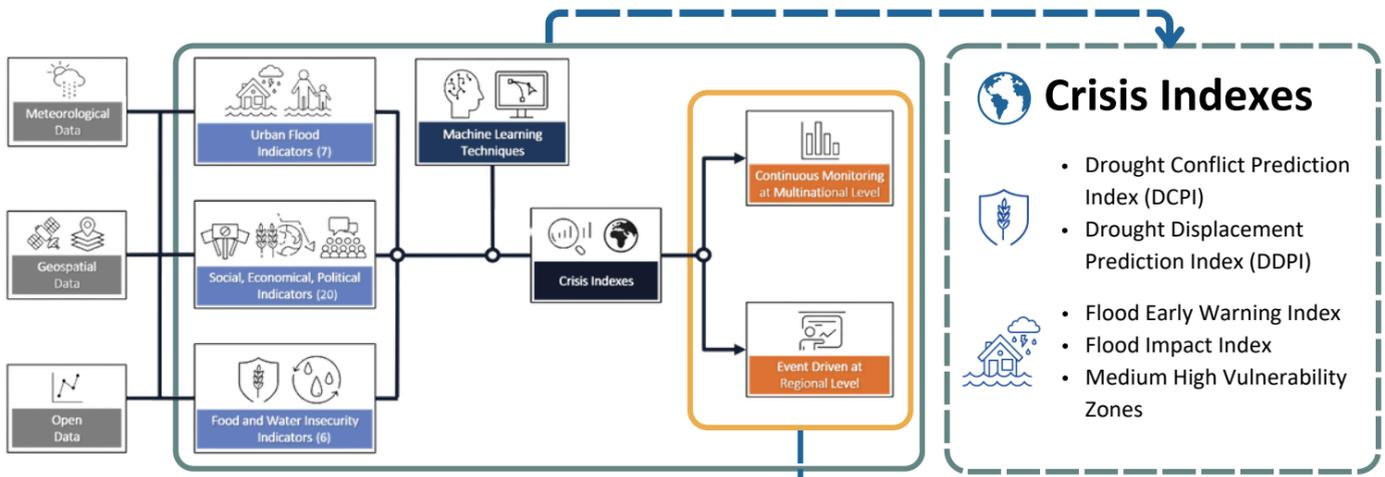
8 Use Cases

33 Innovative Indicators

5 Indexes

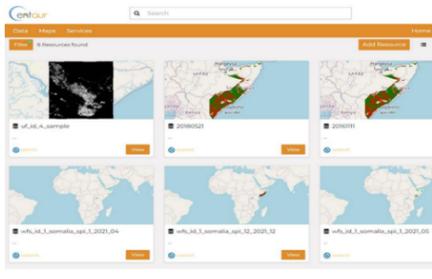
1 Platform

Methodology



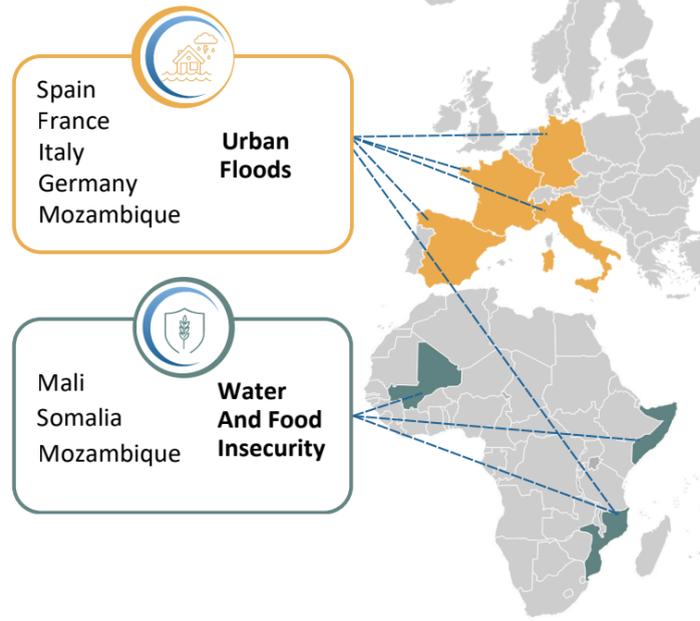
The Platform

The platform serves as a key hub between the technical aspects of the project and the stakeholders, ensuring a smooth flow of relevant information.



Use Cases

A variety of use cases has been examined to inform the project, test our models, and validate the indicators



WHO WILL BENEFIT?

- Institutions**
European Commission Services, International Bodies such as the UN
- Local Authorities**
Municipal Government, Emergency Services
- Nongovernmental Organisations**
Nongovernmental organisations, Humanitarian Organisations

WHEN? 40 months project 2022-2026



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