

Overwatch

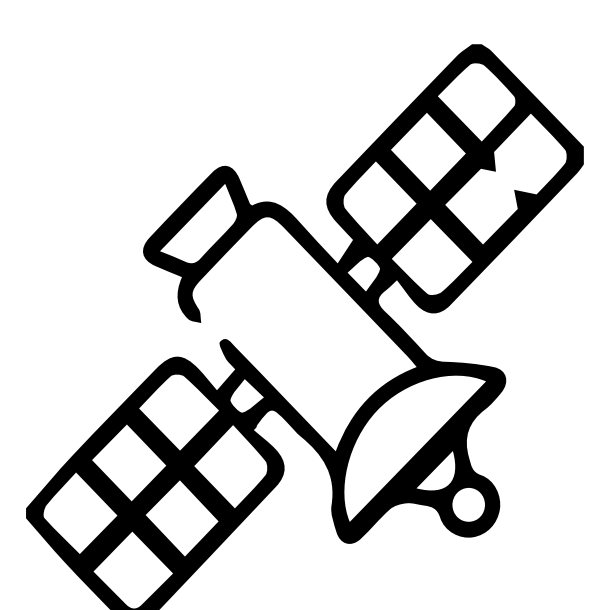
integrated holographic management map for safety and crisis events

THE PROJECT

OVERWATCH aims to implement a crisis management system for **wildfires and floods** supported by Copernicus and EGNSS-based solutions and complemented with innovative **Augmented Reality** user interface, with enhanced data visualization and decision support tools for end-users operating in the **civil protection sector and in the emergency management domains** such as practitioners (first responders, public authorities).

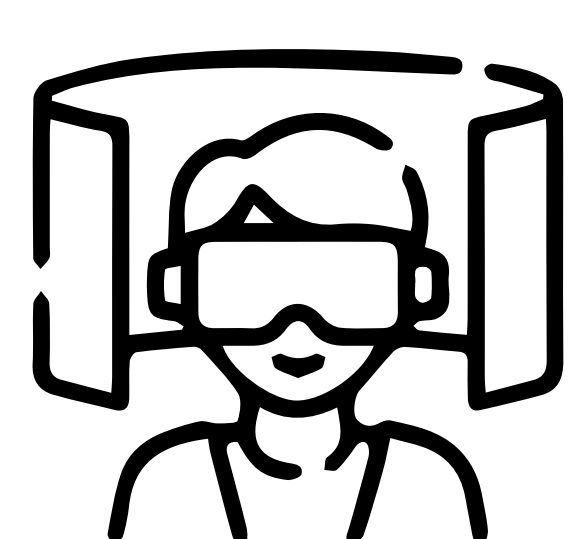
Overwatch contributes to Europe's all DRG and SRG nr 11, 13 and 15.

THE TECHNOLOGIES



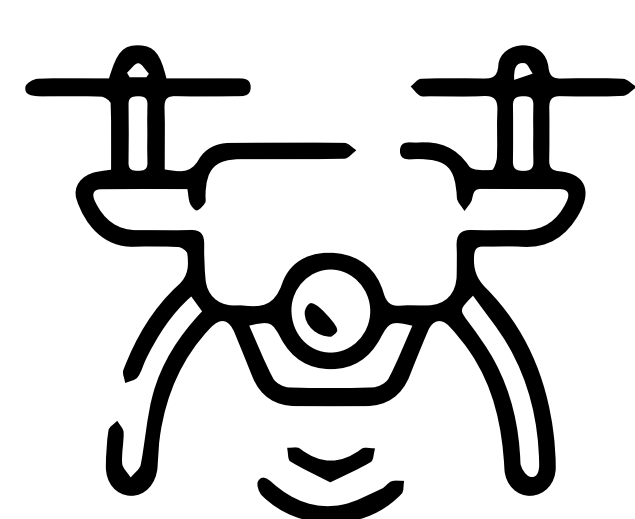
Earth Observation

Satellite data as a key element for hazard impact evaluation and recovery planning in case of large-scale disaster events.



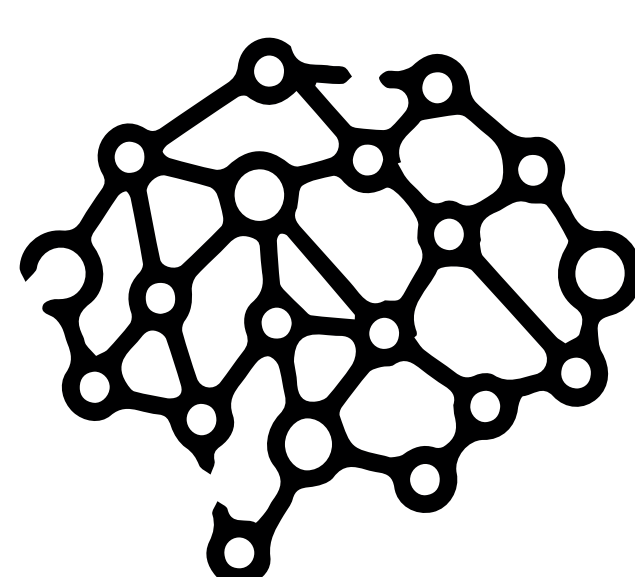
Augmented Reality

AR holographic operation map enriched with information relevant for disaster management and mitigation.



Drones

Low-height flight and high-accuracy terrain mapping. Equipped with a set of cameras to map and delimit natural events.



Artificial Intelligence

OVERWATCH is developing a new set of machine-learning algorithms to map floods, fires, and damaged areas. The algorithms will be designed to use both Copernicus Sentinel as well as drone data.

"OUR OBJECTIVE
IS TO PROVIDE
UPDATED AND DETAILED
INFORMATION
TO THOSE RESPONSIBLE
FOR DECISION-MAKING
AND MITIGATING
NATURAL DISASTERS"



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PARTNERS: **ithaca**

