

# SMALL DRONE FOR CONFINED SPACES (GHENOVA/AIMEN)

We have developed a system to validate the safety of workers inside confined fabrication spaces. It consists of a small drone that should carry out supervision tasks to ensure that the work environment is safe for operators to access, for which an oxygen sensor has been added to the drone.

## Involved partners



## Technology

Reading of sensors through I2C protocol by ESP32 board, for subsequent packaging based on the CRSF protocol and sending through radio frequency communication in the 868MHz band, from small drone to its remote control.

## Applications

The main application of this system is to monitor oxygen levels inside port tanks. It detects the concentration of oxygen in confined spaces and alerts workers in case of any risks. This solution ensures safety in the work environment by the integration of new sensing technologies in small drones.

