

# Emergency Drone - Onboard

This page is intended to serve as an entry point to the Emergency Drone project from the HSRW perspective.

Initial steps:

1. Read the project proposal and understand the the overall project objective. Ask personally to Prof. Becker or Harley to share the proposal with you.
2. Request access to our shared folder in Scibo.

## WP 3 - Drone Radio Link

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In this work package we (EOLab) are in charge of the hardware development of multiple drones that have as payload communication systems including antennas and routers, highly connected with WP 4.

There is currently no active work on this WP as we have a drone with 25 kg payload for initial testing.

## WP 4 - Radio Transmission Technology

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Regarding this WP we (EOLab) are not doing the heavy lifting, it is mostly in the hands of our partner [RF-Frontend](#), however we are deeply involved in the process and the relevant discussions of the transmission system to ensure a proper integration between the drone (WP 3) and the communication system (WP 4).

## WP 5 - Swarm Drones

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Internally we call this drone **SAR drone**. If you are working on this work package it is recommended to read the following documents to familiarize yourself with the development. Hardware documents:

1. [SAR Drone - System requirements document](#): This document contains all research, part selection and design considerations.

## WP 7 - Interoperability

At the moment this WP is on hold because WP 3,4,5 is still in the early stages of development.

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