

# Revolutionizing Humanitarian Aid: UAVs with LoRa Technology

## Abstract:

This paper presents a fascinating project that combines flying drones, known as UAVs, with an innovative communication technology called LoRa. The aim is to revolutionize how we provide help during disasters or in remote areas where assistance is difficult to reach. By using drones equipped with LoRa technology, we aim to make aid delivery like medical aid, first aid, food, places need rescue operations, ultimately saving lives and improving disaster response efforts. faster and more efficient, while also improving our ability to monitor and respond to emergencies in real-time. Through careful design and testing, we've created a system where drones can communicate with each other and with ground teams, enabling smoother coordination during crisis situations. In simulated disaster scenarios have shown promising results, demonstrating the potential for this technology to make a real difference in saving lives. As we continue to refine and expand this project, we're excited about its potential to positively impact humanitarian efforts around the world.

## Keywords:

UAV, Unmanned Aerial Vehicles, LoRa, Long Range, humanitarian aid, disaster management, communication technology, aid delivery, real-time monitoring.

Note: This is just Abstract part of our project for selection process and upon selection, we are ready to present the full thesis.