AlertBox

The **HeatAlert Box** is a low-cost, plug-and-play emergency alert system designed specifically for vulnerable populations—especially the elderly—during heatwaves and other crises.

It operates independently of smartphones, Wi-Fi, or cellular networks, relying instead on **LoRa** (**Long Range radio**) communication, making it highly resilient and suitable for low-connectivity environments like ground floors or rural homes.

Problem

In the 2024 floods that swept across Spain, over 200 people died—many caught off guard without timely warnings.

Victims were mainly people from urban areas



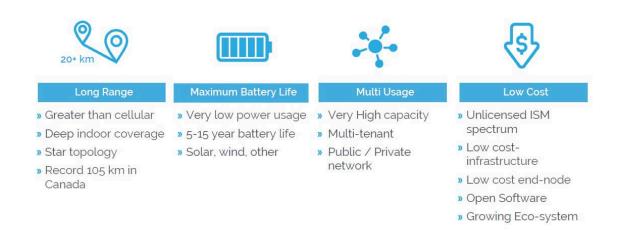
No timely alert

Although Spain's meteorological agency had warned of the arrival of a potentially dangerous cold drop, many Valencians were surprised not to receive a safety alert until 8 pm on Tuesday.

https://www.lemonde.fr/en/environment/article/2024/10/31/flooding-in-spain-valencia-region-authorities-criticized-for-failure-to-warn-of-imminent-disaster 6731131 114.html

Technology

LoRaWAN® Network Features



LoRaWAN® Differentiators and Benefits



Contocolization

- » Indoor & Outdoor
- » Accurate
- » No Battery Impact



Bi-Directional (FDD)

- » Acknowledge
- » Scalable Capacity
- » Broadcast



Global Standard

- » Global Standard
- » Mobility
- » Seamless
- » Roaming



Secure

- » Unique ID
- » Application
- » Network