RMD Pitch

Dixon Snider   Phil Akagu-Jones   The Vi Phung   Vu Hai Nam Nguyen   Naut Seper

Current Problems

Current Problems

- Most recovery tools like Google's "Find My Device" have a fatal flaw, they require an active internet connection and dependency on centralized cloud services.

- When a phone is in "Airplane Mode," out of data, or hiking off-grid, standard recovery tools stop working exactly when you need them most.
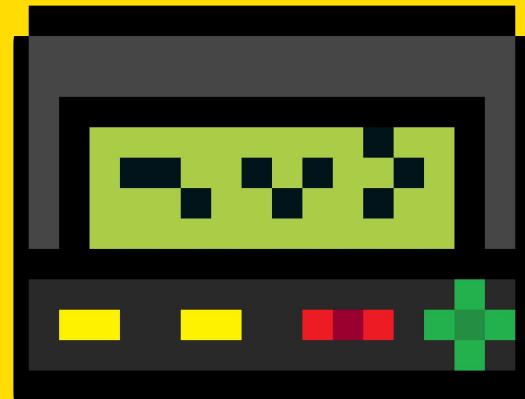
Our Mission

- To build a "Black Box" recovery tool that works without the internet. We replace data packets with **SMS automation** and **LoRa Mesh radio** to bridge the gap for disconnected devices.

Introducing...

Ring My Device (RMD)
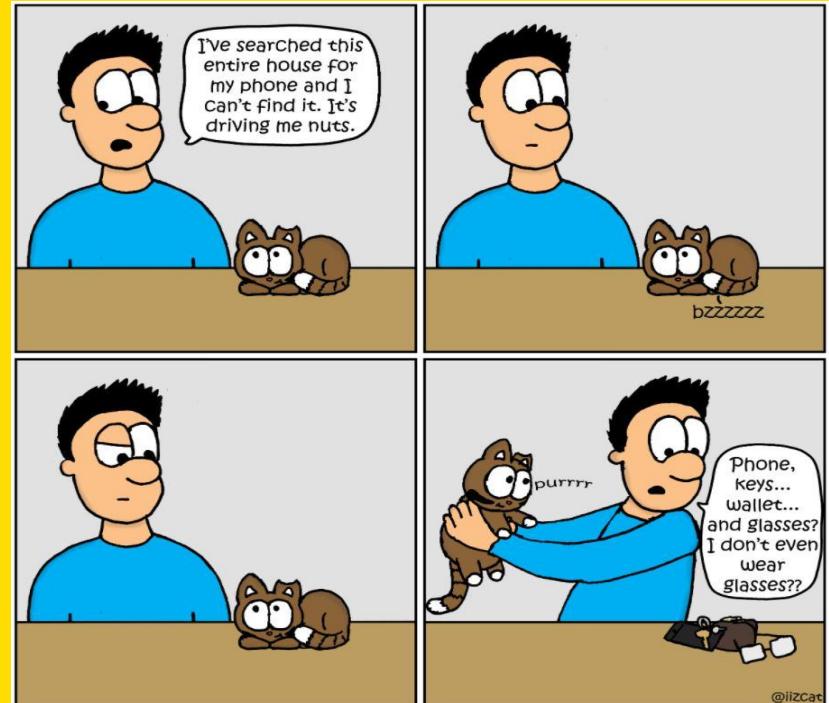
How does RMD work?

Step 1: You send a command (like "rmd ring") via an authorized phone, e.g. your friend's phone, using simple SMS or a Meshtastic LoRa node if you are off-grid.

Step 2: The app intercepts the signal using a background Broadcast Receiver and verifies the sender against a local whitelist and PIN for security.

Step 3: It executes the command locally, such as overriding "Silent Mode" to ring at full volume, wiping data, or texting back GPS coordinates.

System Architecture

Client-Side: Threaded & Reactive

- RMD is built with **Jetpack Compose** and **Kotlin Flows** for a UI that reacts instantly to background events.

- Heavy operations (SMS parsing and Database writes) are offloaded to **background coroutines** to ensure the app never freezes.

- **Android Room** instead of simple text files to create a structured, tamper-proof SQL database for all command logs.

Network & Hardware: Decentralized

- Integrated **Meshtastic (LoRa)** support enables long-range off-grid communication that bypasses cell towers entirely.

- Replaces Google Play Services with a **Self-Hosted Server** and **OpenCellID** simulation to make sure users own their location data.

Our Promise

We promise a future of digital independence where users retain absolute sovereignty over their data through a privacy-first architecture that completely removes dependency on big corporations.

Finally, we also want to create a failsafe recovery channel that works when the infrastructure breaks to ensure the user that: **being offline or off-grid never means your device is lost for good.**