

Automating for a greener tomorrow

Problem

Challenges of Current Forest Monitoring Methods:

1. Inadequate coverage
2. Delayed detection
3. Limited precision
4. Resource intensive
5. Costly and inefficient
6. Accessibility and terrain challenges
7. Limited night-time surveillance
8. Reactive approach

Solution

A **centralized forest monitoring system** including drones, mobile apps, and warning alarms for forest protection authorities.



Mobile and Web
apps



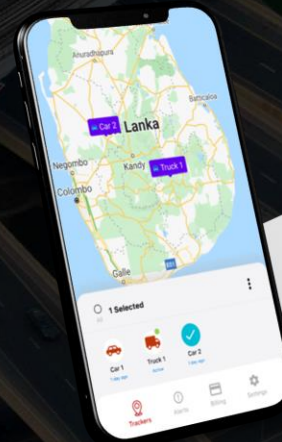
Damage analysis
& reports



Emergency
Alerts

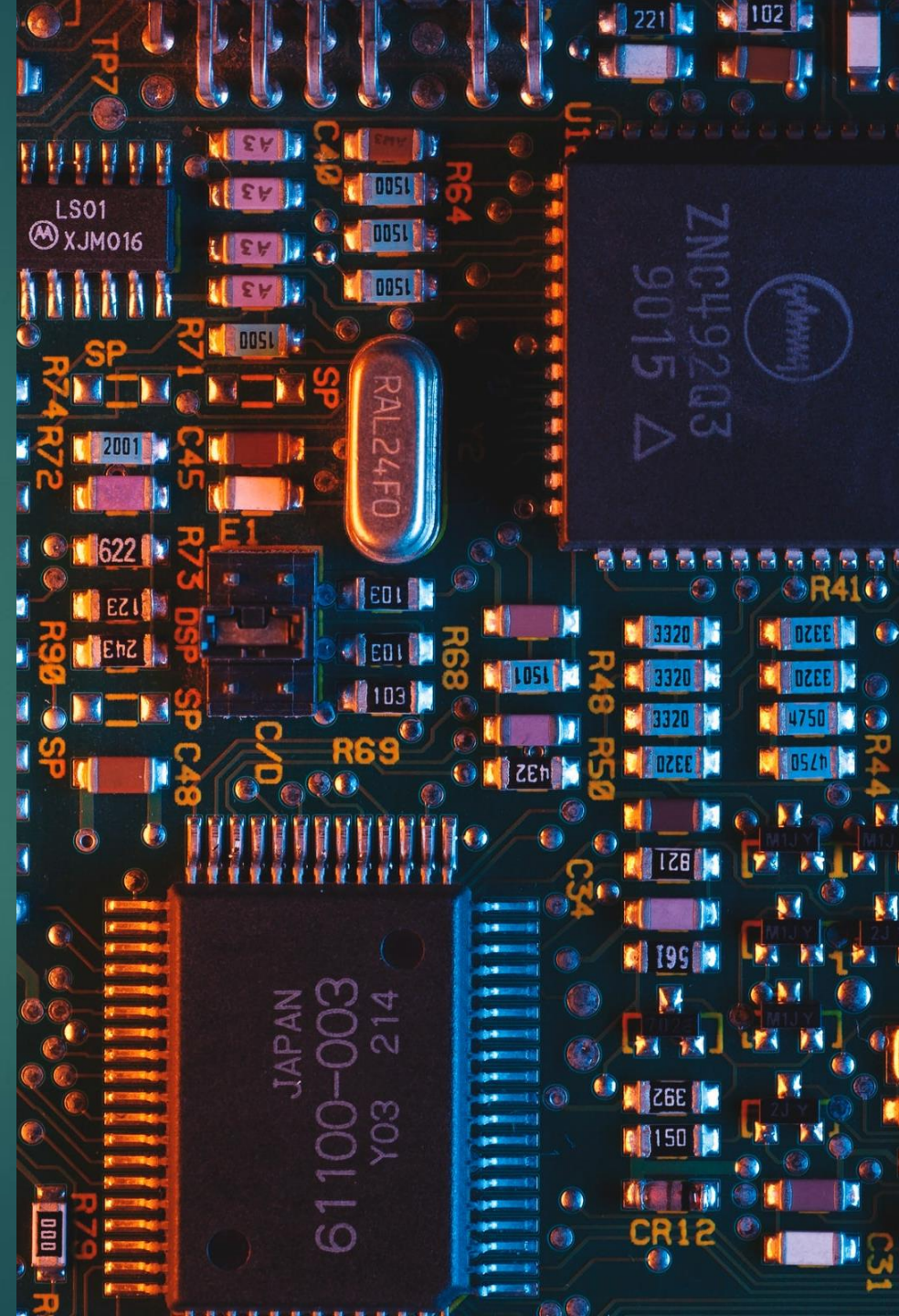


Fire and Logging
monitoring



TECHNICAL INFORMATION

highlighting viability and
cost effectiveness



Product

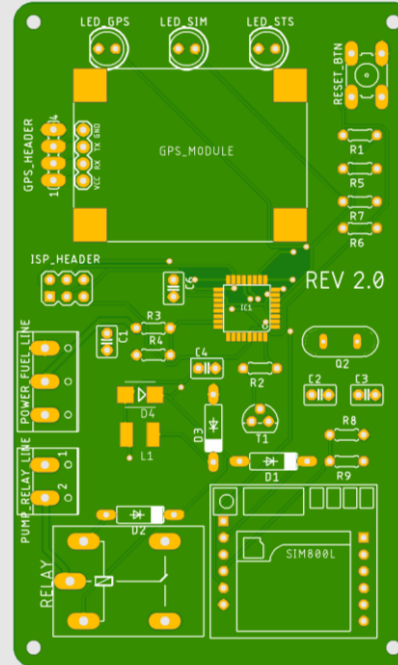
Hardware

► Hardware components:

- Processor
- GPS Receiver
- SIM Module
- Camera

► Waterproof hard plastic case

► Fits on off-the-shelf drones



Designed PCB



Prototype

Product Software

State-of-the-art Development Tools



Android, iOS Apps
React Native



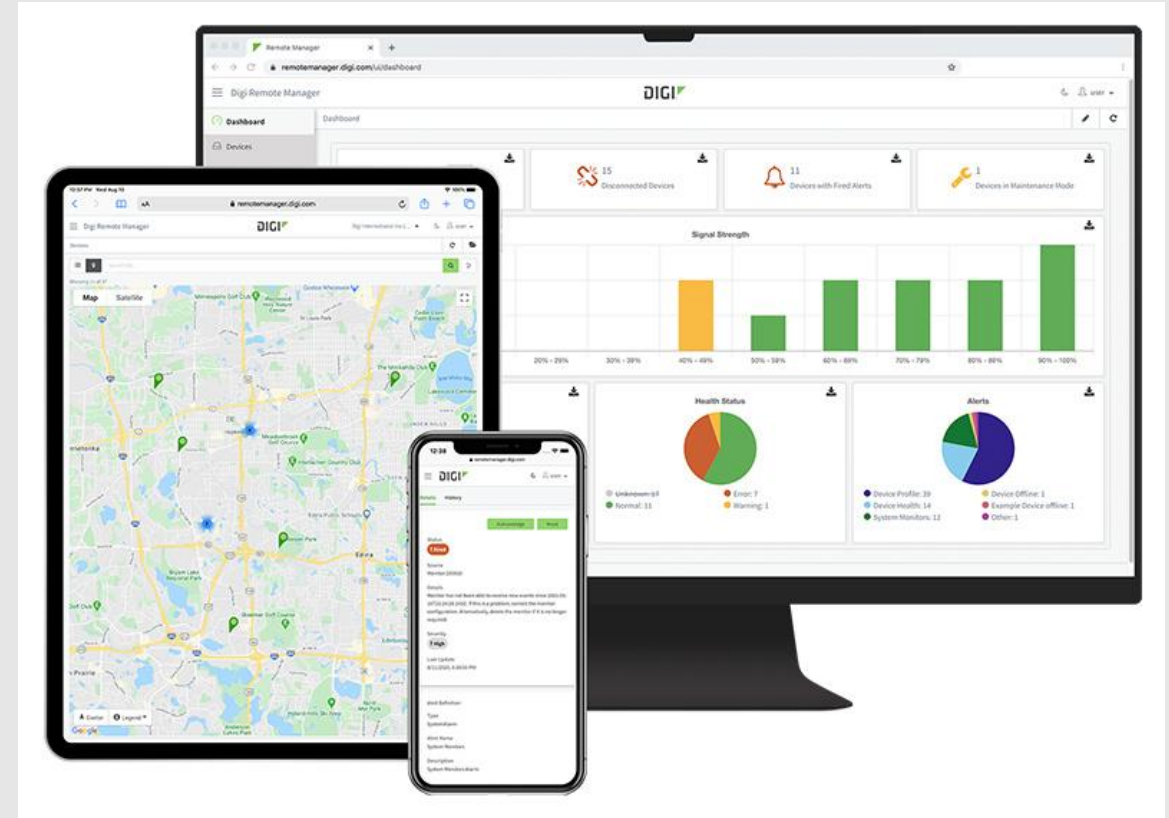
Database
Firebase

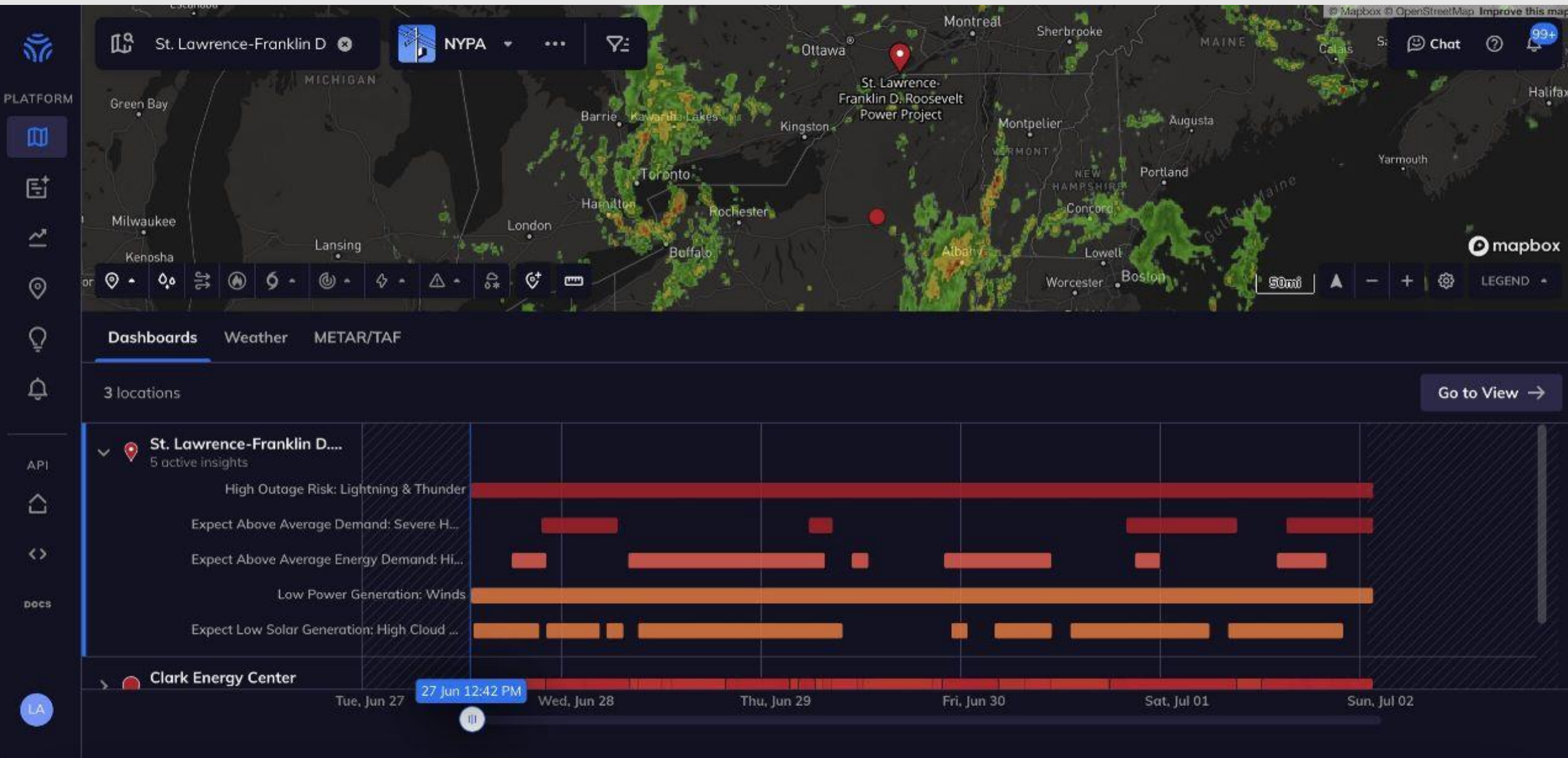


Maps Provider
Google Maps

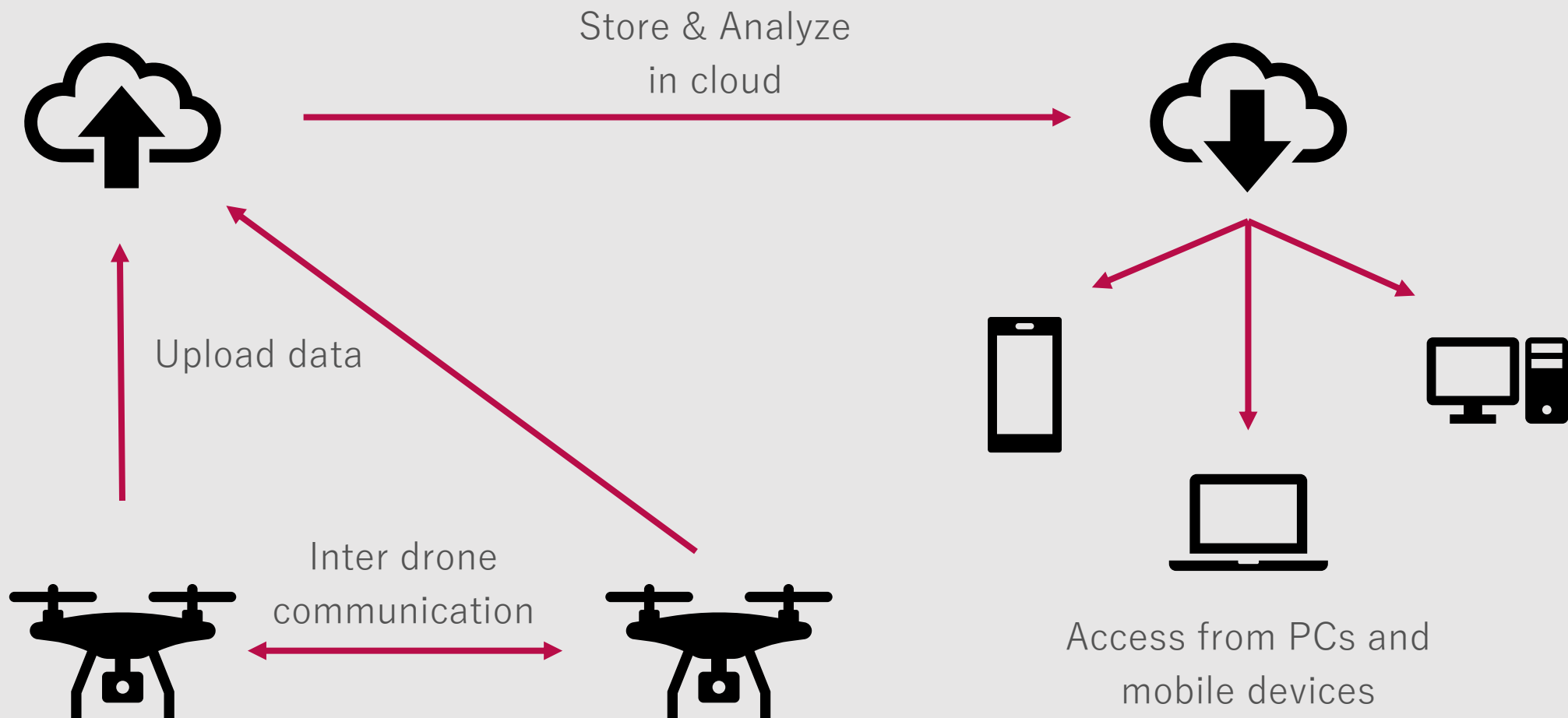


Cloud
Functions





Process



Team



Thanushanth Kanagarajah



Supun Gamlath



Chathura Gunasekara

Thank You

