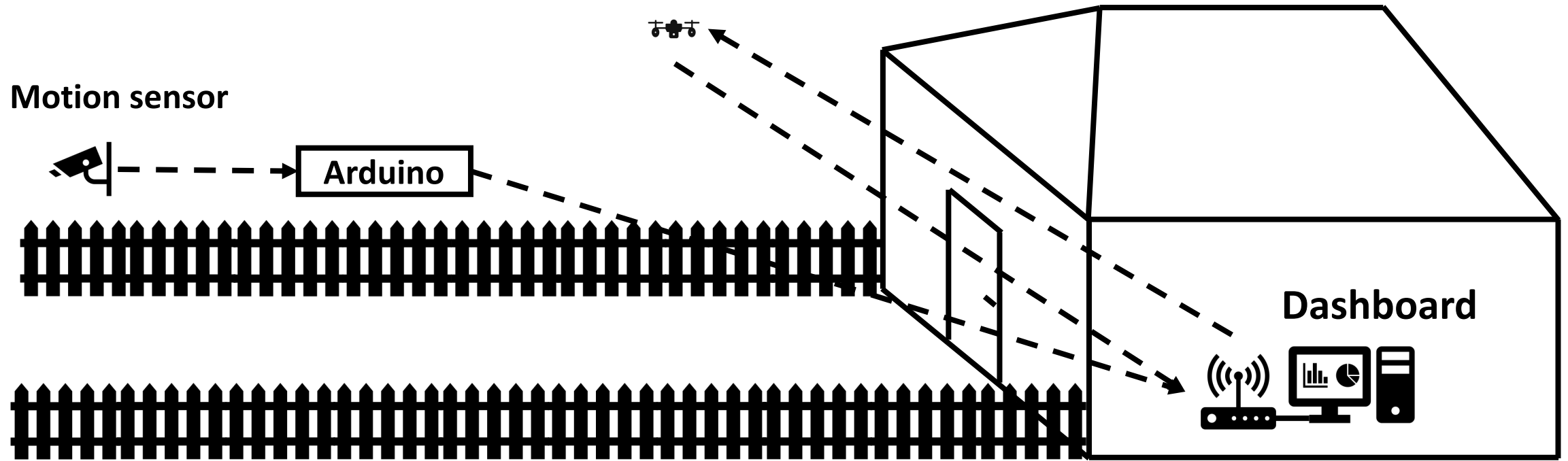


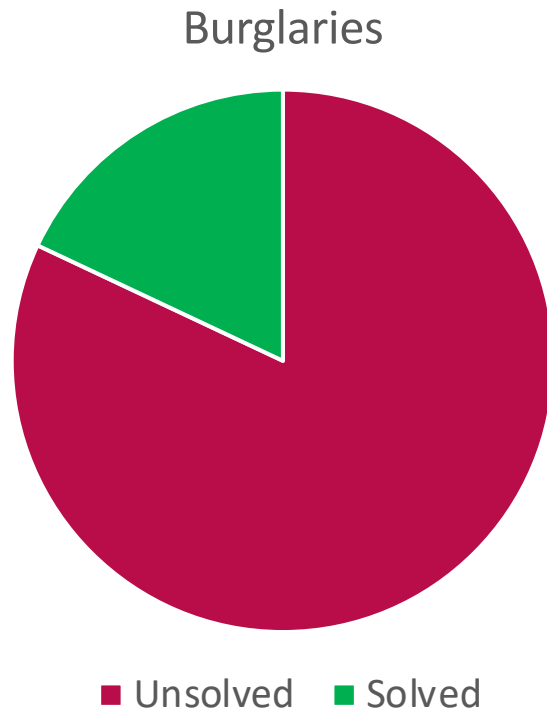
AIC Security

Agenda

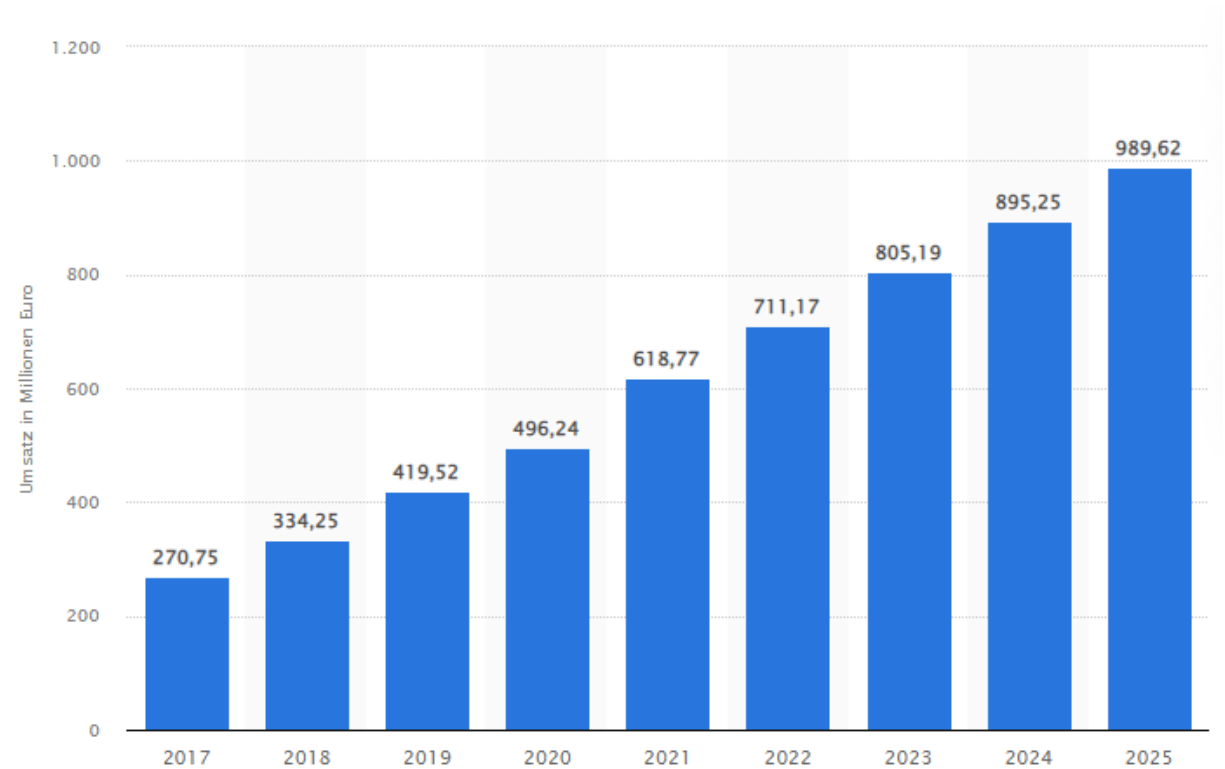
1. Basic Doncept & Design
2. Technical Concept
3. Circuit
4. Development
5. Dashboard
6. Demo
7. Critical Review
8. Discussion



Use case offers growing business potential

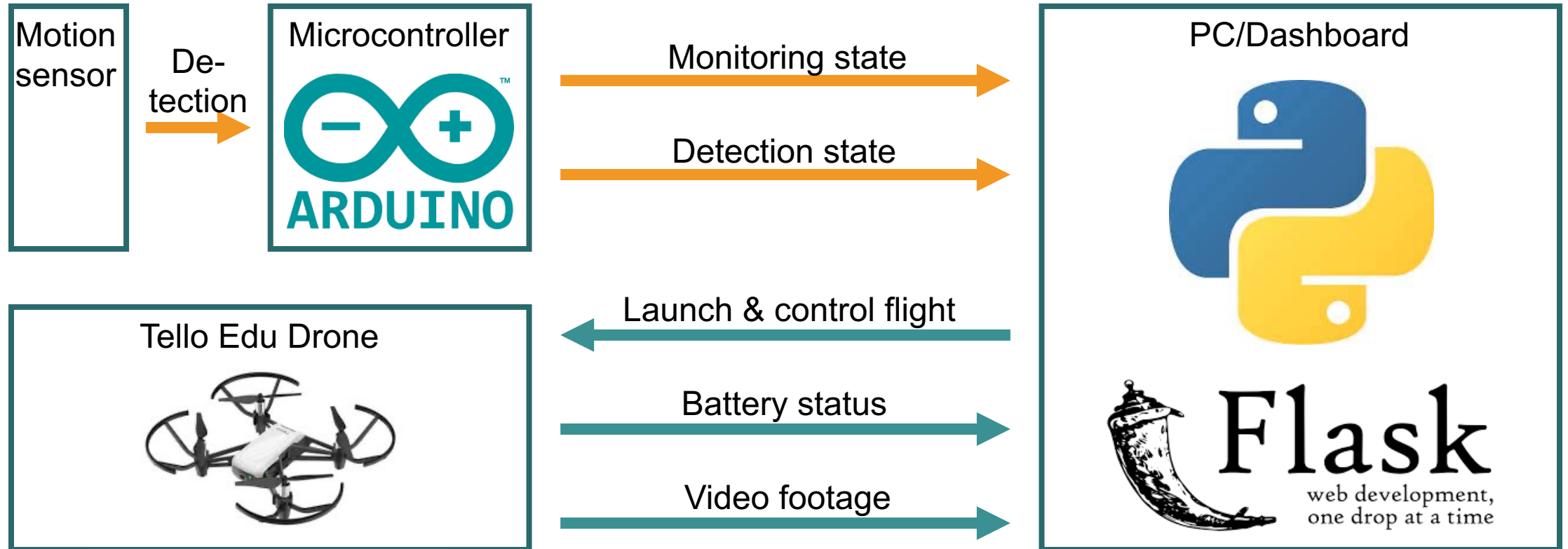
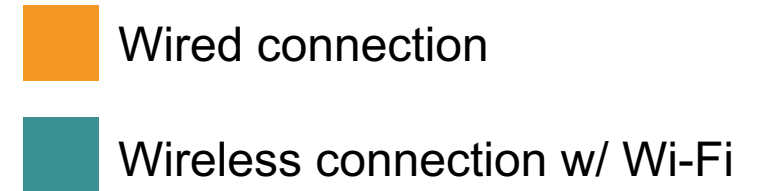


*Police crime statistics (PKS) 2020 - time series as of 1987

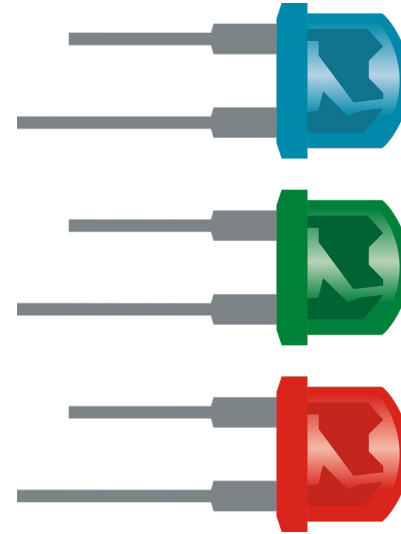
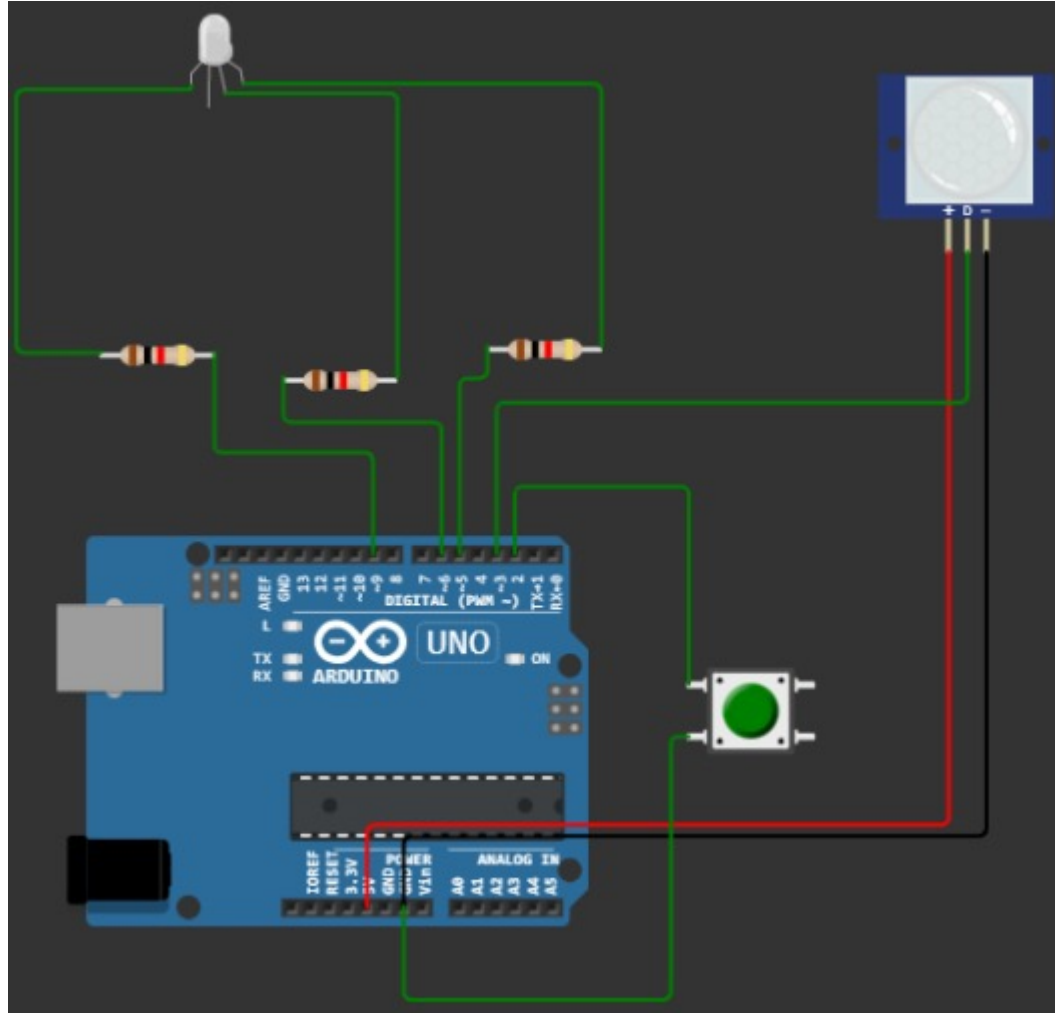


*Smart Home - Forecast for sales in the building security segment in Germany for the years 2017 to 2025

Architecture



Circuit



Home → ignore any movements

Activated and listening
→ record movements/motion

Activated and detected
→ movements/motion detected

Highlights within the software

- Interrupts
- Serielle communication
- Threads
- Logging
- Yolov5s for human detection

Dashboard

Home Security by AIC

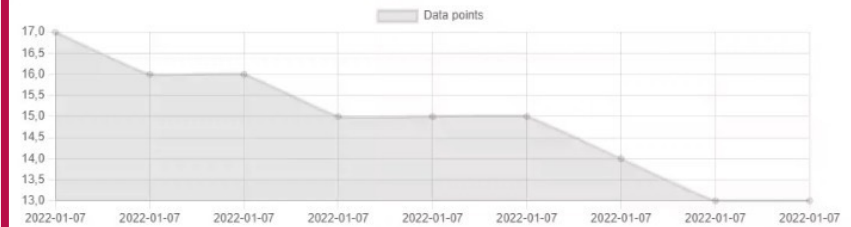
Your current home state

You are absent. Motion was detected. Drone is flying.

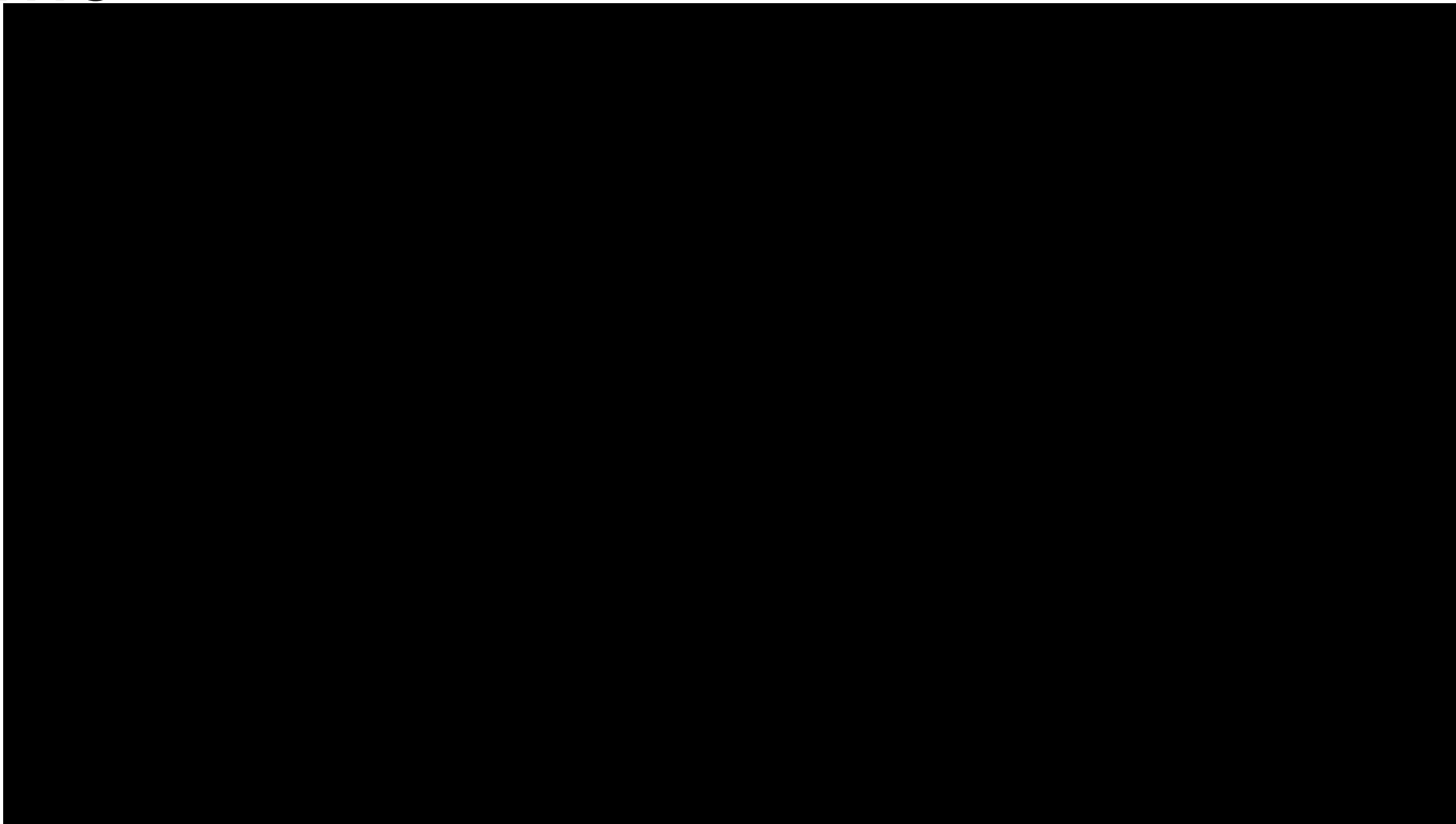
Live Video



Live Energy Level



Demo



Short commercial break



Critical review

- Drone connected via standalone WLAN
- Arduino board without WLAN module
- Drone
- Dependency on website

Discussion

