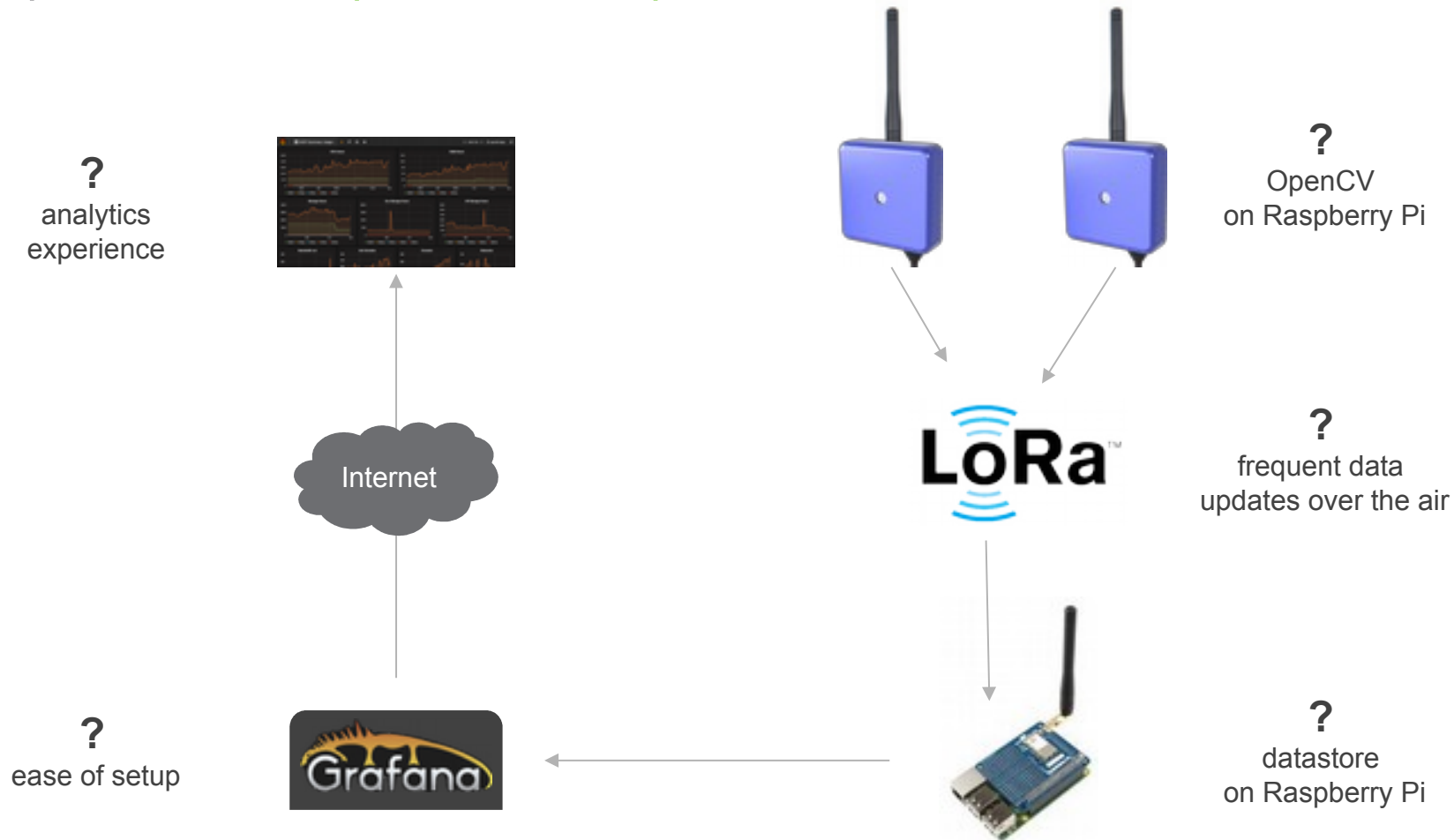


no-picture camera **proof of concept**



Software components

- smart-video-counter

The piece of software, written in python, that uses OpenCV to do image capture, analysis, and that generate counters (every 2 secs: persons, moving persons, faces)

Code is available at <https://github.com/bernard357/smart-video-counter>

- uds_sender and uds_receiver

The piece of software, written in C, that sends and that receives LoRa messages

This is a fork from code provided originally by SnootLab for the chisterapi

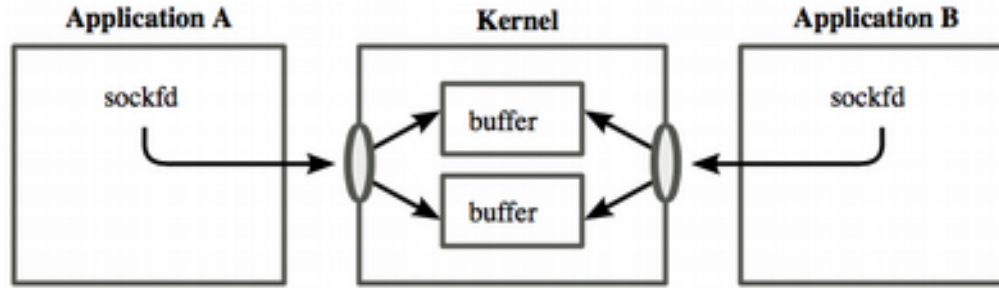
Code is available at https://github.com/bernard357/lora_chisterapi

- InfluxDB <https://www.influxdata.com/time-series-platform/influxdb/>

- Grafana <http://grafana.org/>

Modular architecture at the system level, with Unix Domain Sockets (UDS)

written in different programming languages,
and bringing multiprocessing capability



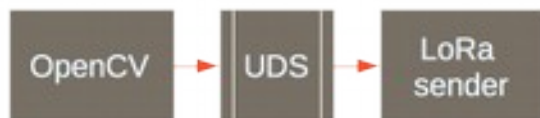
modular data emitter:

- smart-video-counter (on OpenCV)
- or
- LoRa receiver

modular data processor:

- datastore updater (e.g., InfluxDB)
- or
- LoRa sender

Smart camera on Raspberry Pi



Gateway on Raspberry Pi



Cloud datastore

MySQL

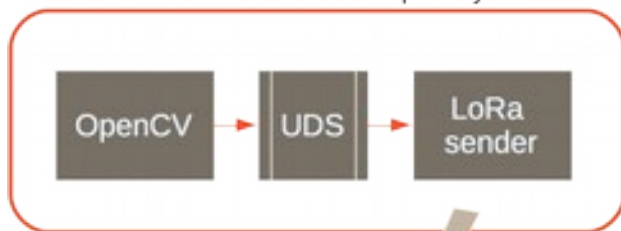
Cloud dashboard

InfluxDB

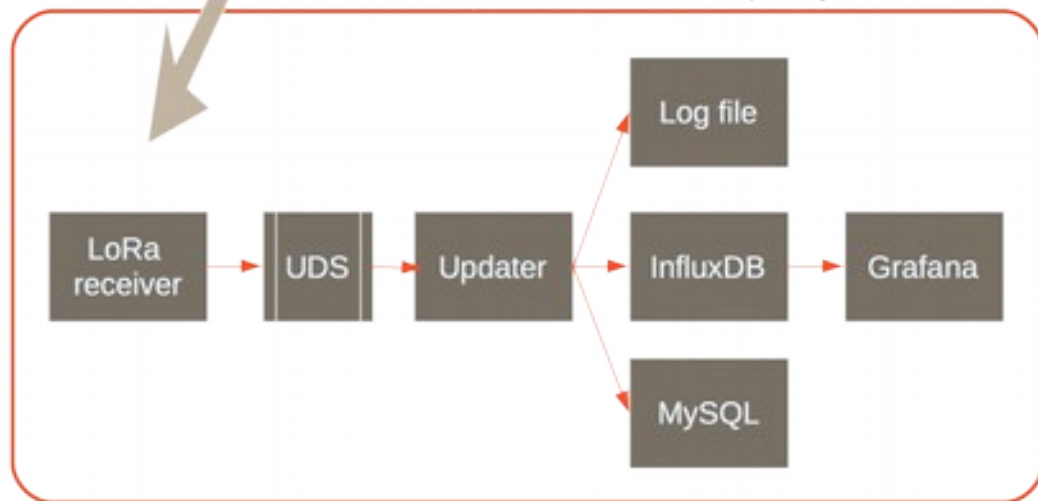
Grafana



Smart camera on Raspberry Pi



Data collection on Raspberry Pi



Standalone camera on Raspberry Pi

