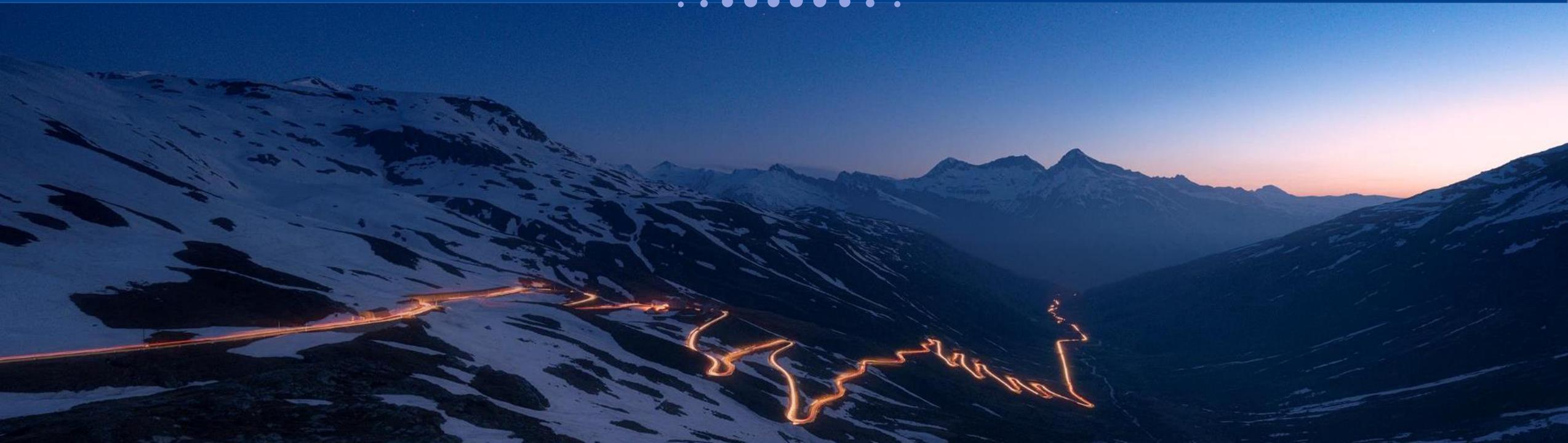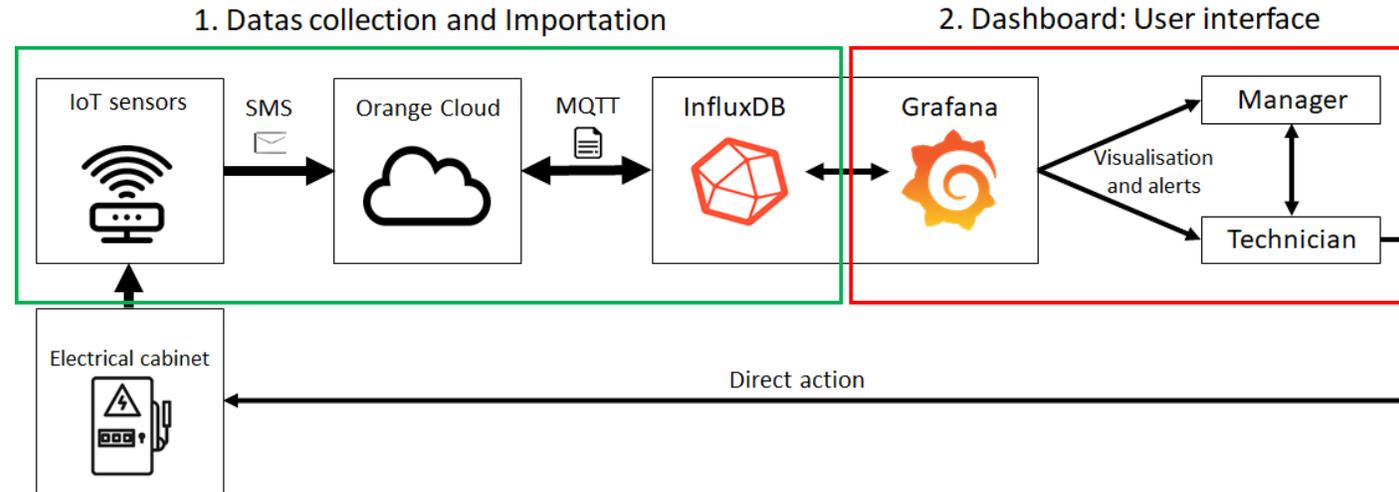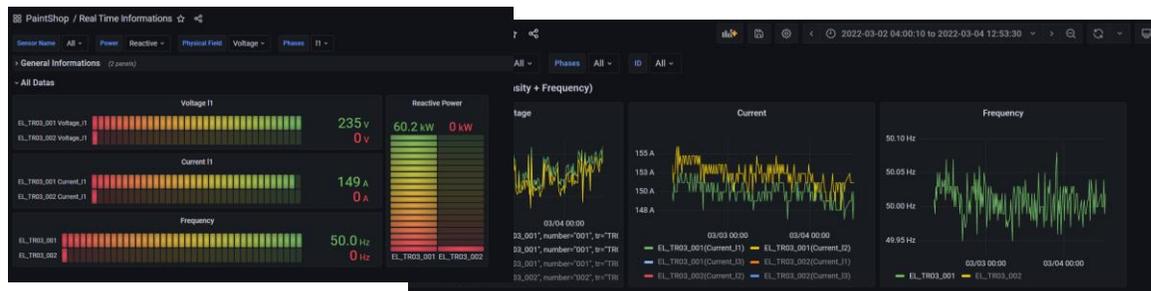# STELLANTIS

INOLAB
FABLAB PROJECTS

Description :

- Collect Energy consumption datas of every Electrical cabinet and visualize datas in a dashboard to allow technicians to manage energy (avoid waste, and optimize consumption)

Tasks :

- Import datas from the cloud to a database adapted to the uses

  → Programming and Database management (InfluxDB or other solutions)

- Creation of the user interface according to the needs of the technicians

  → Understanding the needs of energy management, programming (Grafana or other solutions)
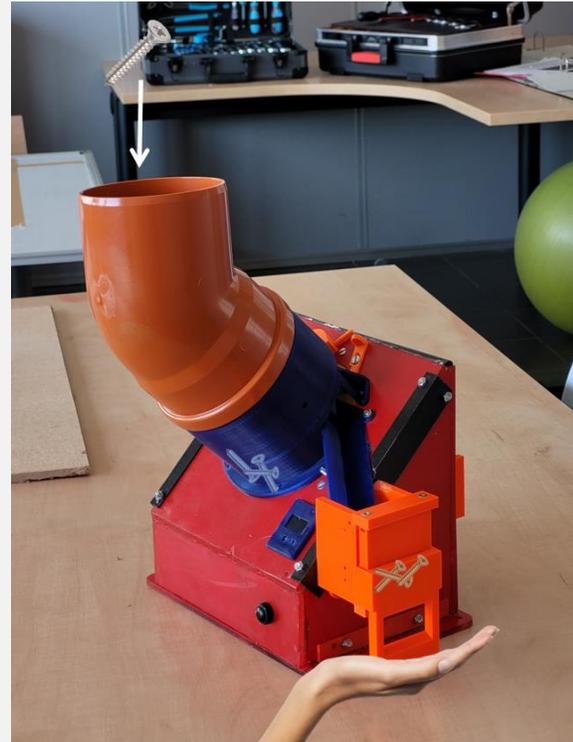
1. Datas collection and Importation

IoT sensors — SMS — Orange Cloud — MQTT — InfluxDB

2. Dashboard: User interface

Grafana — Visualisation and alerts — Manager / Technician

Electrical cabinet

Direct action

→ The two tasks interact with each other, the final products must be compatible

STELLANTIS

CURRENT SITUATION

OBJECTIVE

Description

The objective is to go from picking the screws in a box to directly have the right number of screws put in your hand
→ more effective
→ more comfortable for the operator

Tasks :

- CAD to design the pieces of the dispensor
- 3D printing to print some parts
- arduino programming
- assembly
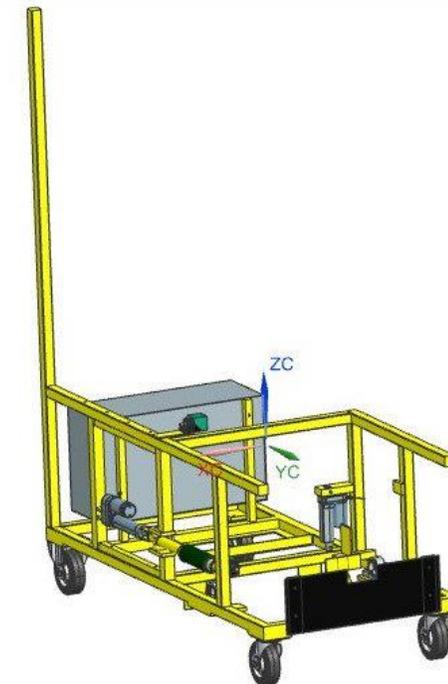
Future
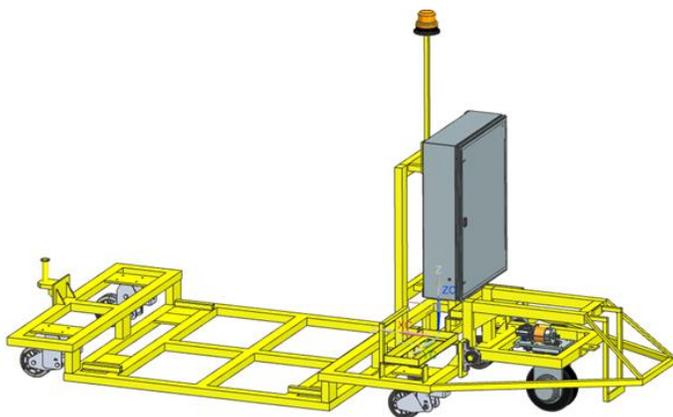in our hands

STELLANTIS

Objectives :

- Design AGV
- Implement system in the factory

Specifications :

- Follow magnetic line
- People detection

Tasks :

- Draw up quote
- CAD for structure design
- Programming
- Assembling

Future
in our hands

Collaborative robot

R&D

- Develop new accessories
  - Gripper
  - Multi-tools head
  - Camera holder
  - Screwdriver
  - Magnetic tool
  - And so on… !

- Program robot
  - Camera control program
  - Strenght adjustment
  - PLC set-up