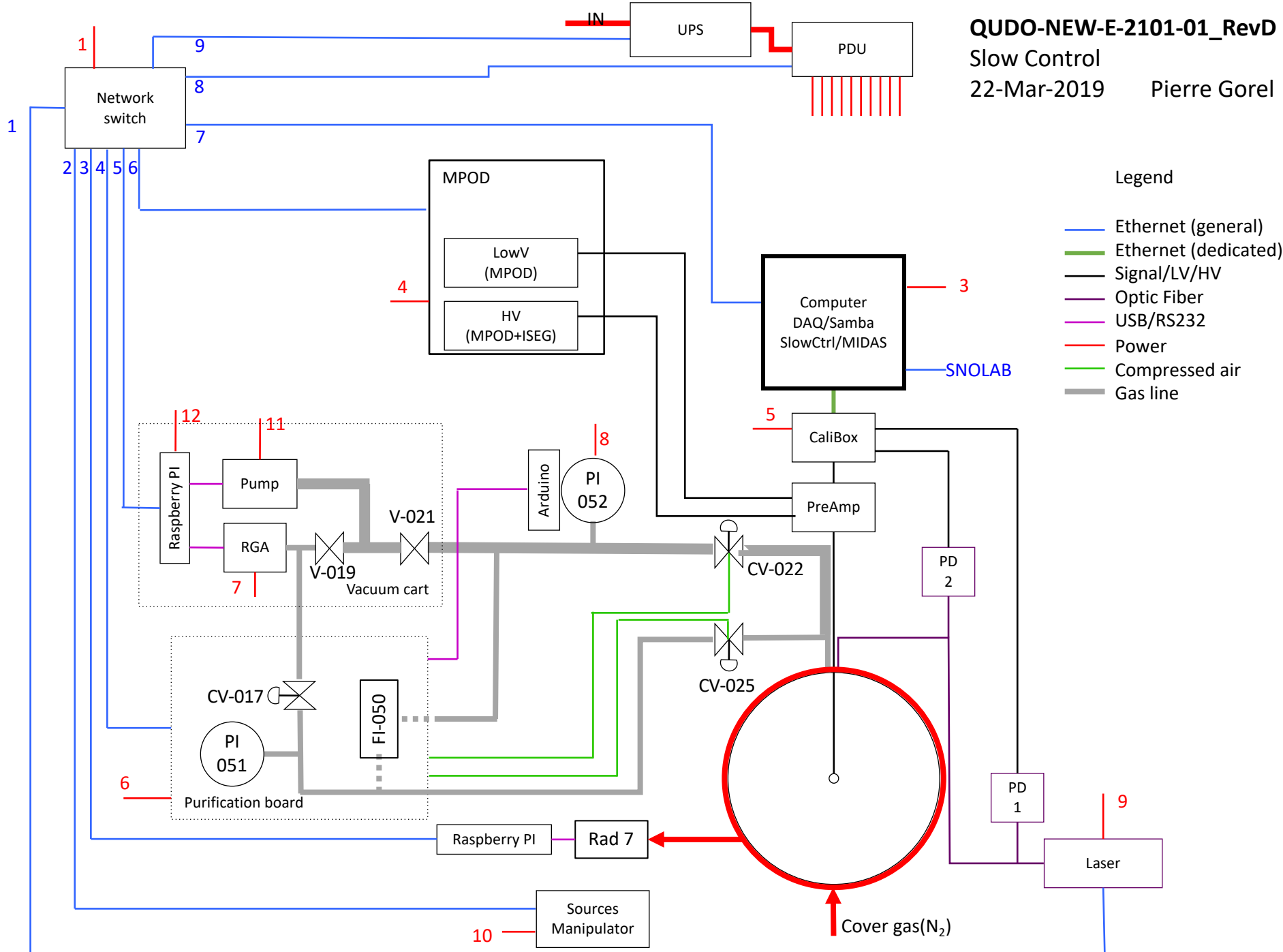


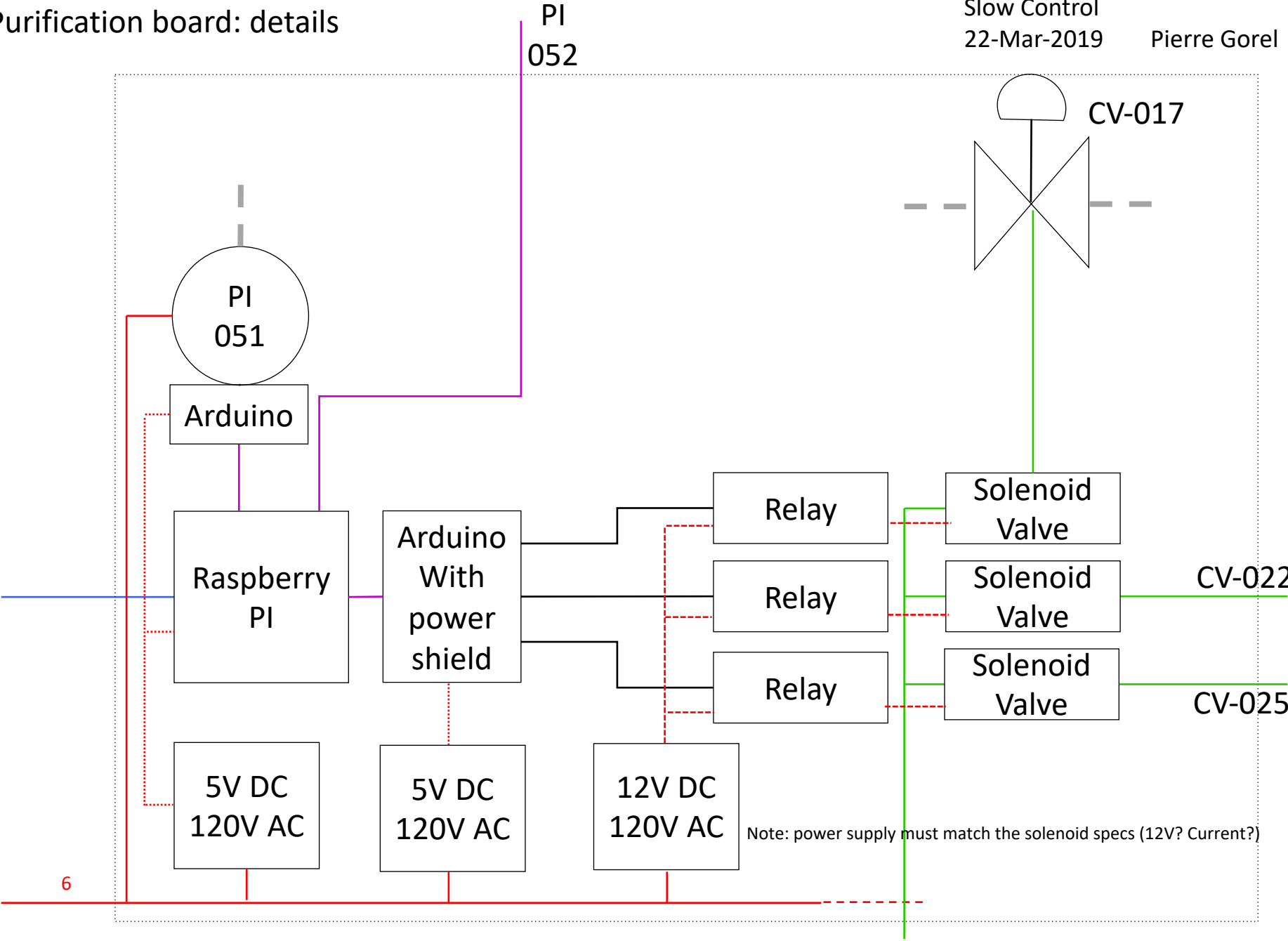
# WP 2: Slow Control

P. Gorel

NEWS Collaboration meeting, Grenoble 11-13 June 2019



Purification board: details



# Hardware purchased (not yet delivered)

- MPOD + ISEG HV 4ch + LV module
- StarTech 42U Server Rack Cabinet – 36” Deep
- APC Smart-UPS SRT 3000VA 120V, Network Card
- APC PDU, Switched, 30A, 100-120V, 24 outlets
- Netgear ProSafe JGS524 24-Port Gigabit Ethernet



# MIDAS on Raspberry Pi

## 1. Installation

➤ Done

## 2. Running MIDAS Frontends to communicate through USB

➤ In progress

## 3. Communication with MIDAS server

# Experiments with Arduino, through TCP/IP

- Duane worked with a Leonardo with ethernet port
  - Discontinued, need a replacement
- Kevin is porting the work on Arduino YUN
  - Main issue at the moment: ~~disabling the Wifi~~ getting a sticker for it
- ~~Plan B: Ethernet shield on Arduino (no Wifi)~~

# USB/RS232 communication

- Sending/Reading ASCII string to/from the USB port
  - Working example: Stepper motors of calibration source handler
  - Need to be done:
    - Pump (Matt)
    - RGA
    - Rad7
- Proprietary protocols, more difficult to do.

# Ethernet communication

- UPS/CDU/MPOD HV using SNMP protocol
  - Already implemented in MIDAS
- Laser, JSON documents
  - Work in progress, need to define the relevant parameters
- Pressure gages, flowmeter and valves through Arduino