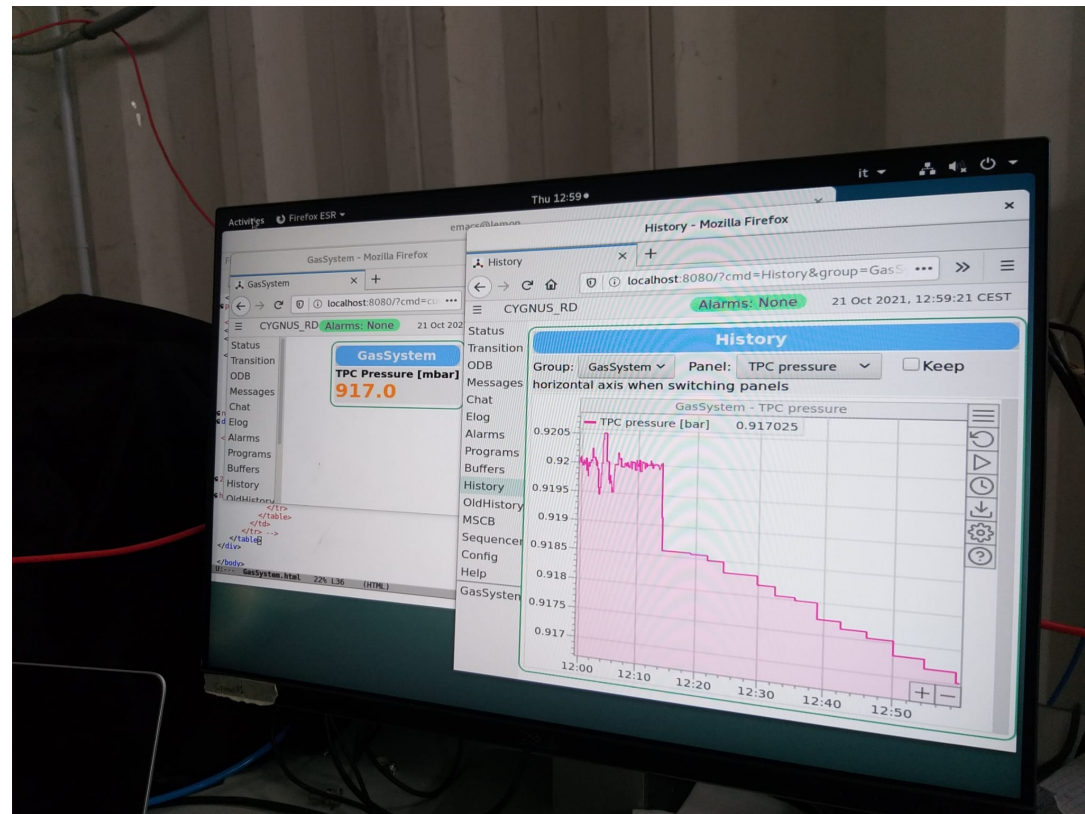


# Gas distribution status

- Gas system:
  - all relevant functionalities (gas mixing, pressure control, recirculation, gas recovery, alarms, analyzers) have been successfully tested after a couple of bug fixes by AirLiquide
  - operating conditions are satisfactory:
    - Absolute pressure stable within 0.5 mbar on a ~ 100 liter vessel
    - Gas recovery booster tested with 1 bar(g) inlet pressure / 2.5 bar(g) compressed air pressure → > 60 bar in the recovery line was reached (without any recovery volume)

# Gas distribution status

- Remote control:
  - Basic functionalities (read/write parameters and variables) have been implemented in MIDAS
  - A web page to monitor the system and set the operational conditions can be easily built



# Gas distribution status

- Installations – also see Giovanni's slides:
  - In-home production of carpentry (gas bottle housings, pipeline ducts)
  - High pressure panels for pure gases already provided by AirLiquide
  - Tender on going for a high pressure panel for the recovery bottle
  - Flexible steel tubes will be used from the bottles to the gas system (order to be processed soon)

# Gas distribution status

- Remarks and other activities:
  - The operation of the air-driven booster interferes with the stability of other pneumatic valves in the system
    - Need to decouple the two compressed-air lines (buffers + check valves)
  - Safety requirements on the recovery line (safety valves, etc.) to be checked with AirLiquide
  - CF<sub>4</sub> concentration analyzer (thermal-conductivity analyzer) just ordered
  - Gas purification studies with Helium on going in Sheffield