

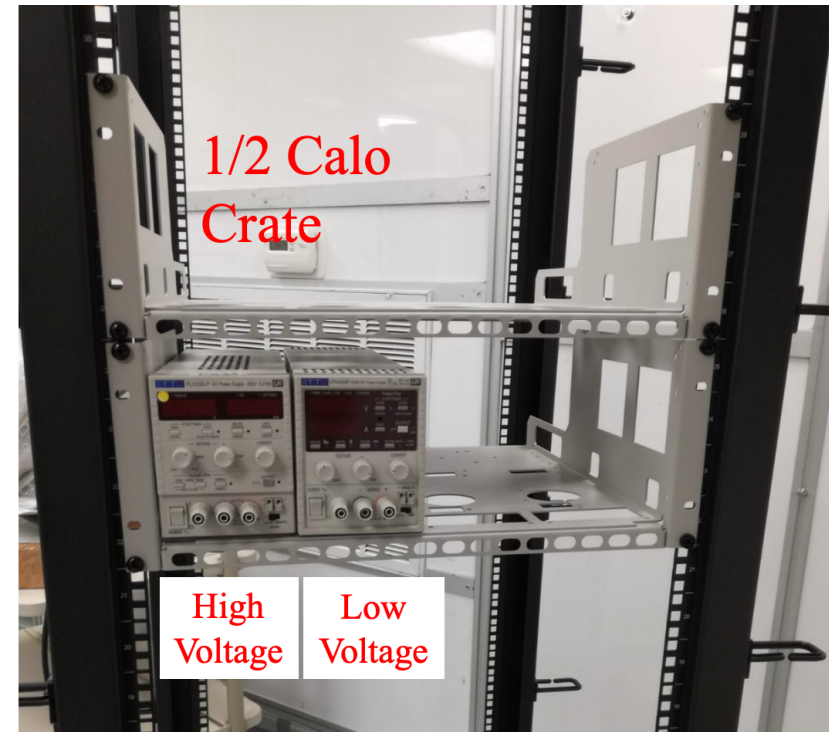
Detector Control System status: Low and High Voltage

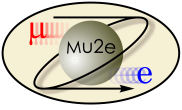
E. Diociaiuti, D. Hampai

Mu2e Italy Meeting

03 September 2020

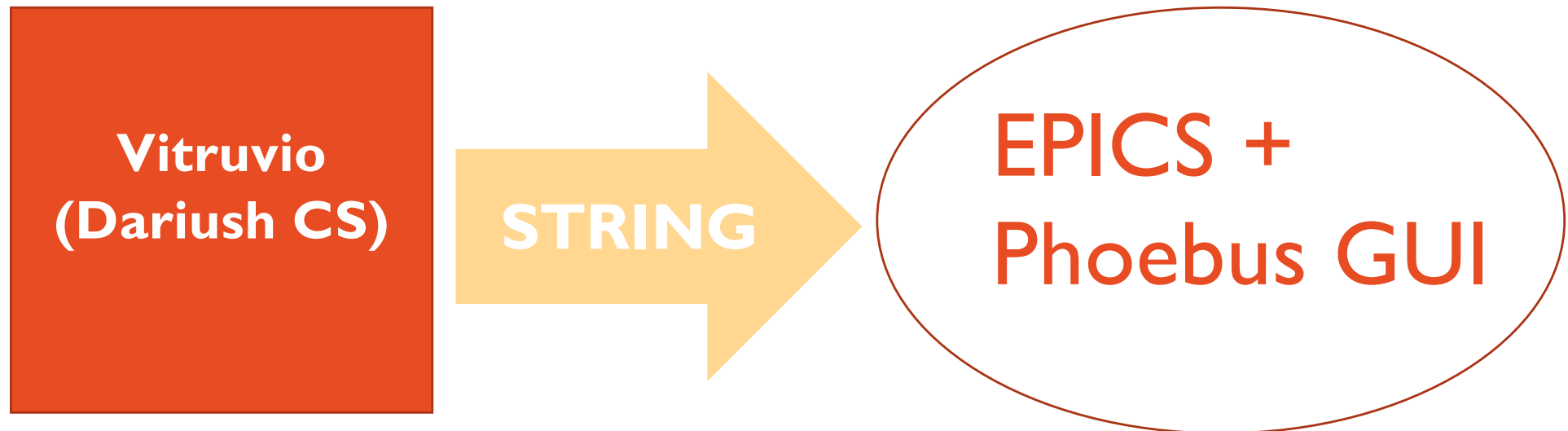
- At the moment at Sidet we have:
 - 10 HV power supply (TTi PLP250-P)
 - 40 LV power supply (TTi CPX400-P)
 - 1 switch ethernet ([SG250-26-K9-NA](#))
- For each disk we will have:
 - racks 48 U size in the DAQ room
 - 20 HV modules providing 200 V
 - 20 LV modules providing 28 V

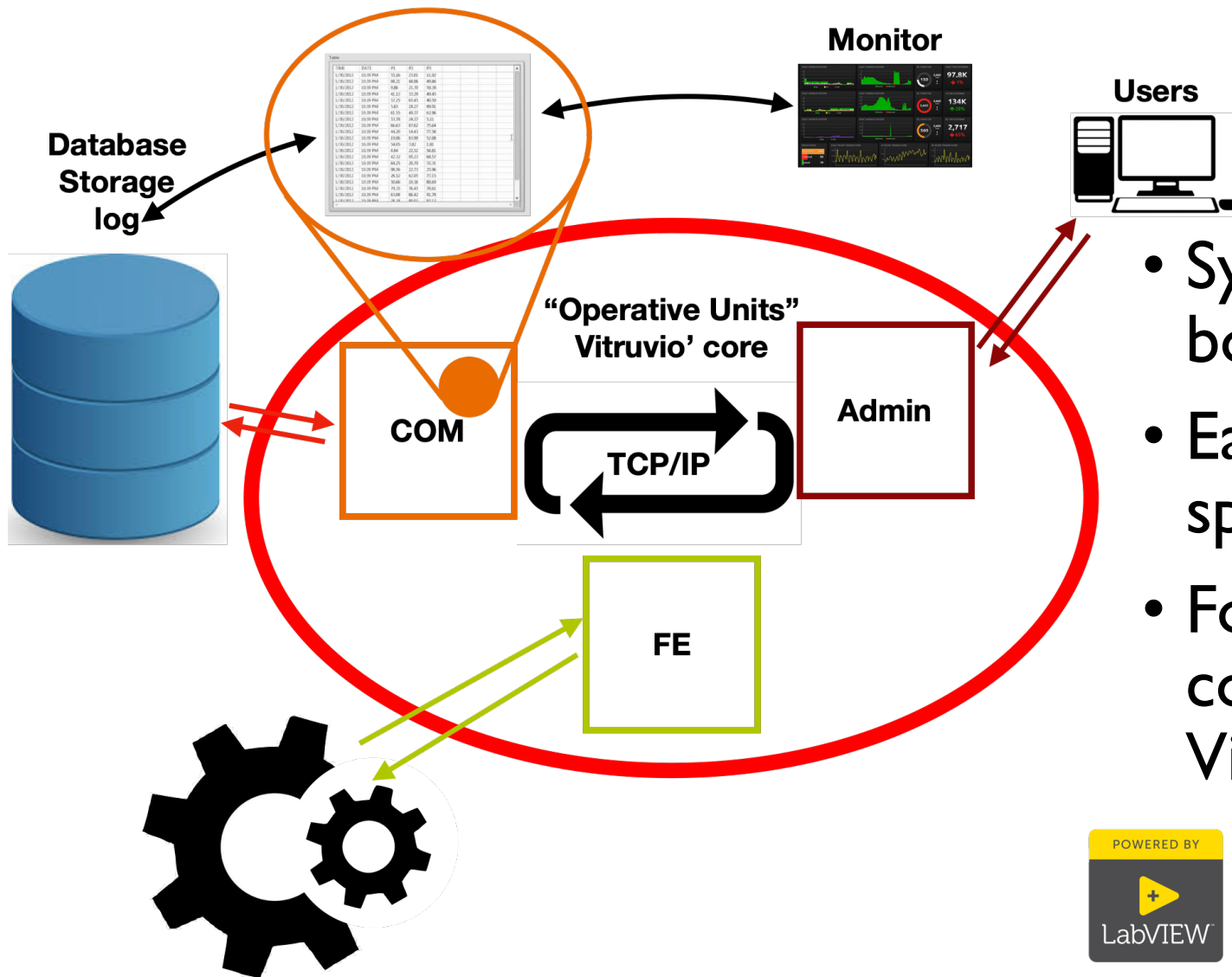




DCS – the project

- Vitruvio: Labview based control system (Dariush is developing it) connected with epics





- System organized in boxes
- Each of them has a specific role
- Format to communicate with Vitruvius JSON



- **Admin:** Interaction with the user
 - responsible for the starting/stopping/resetting of the whole system
- **Communication:**

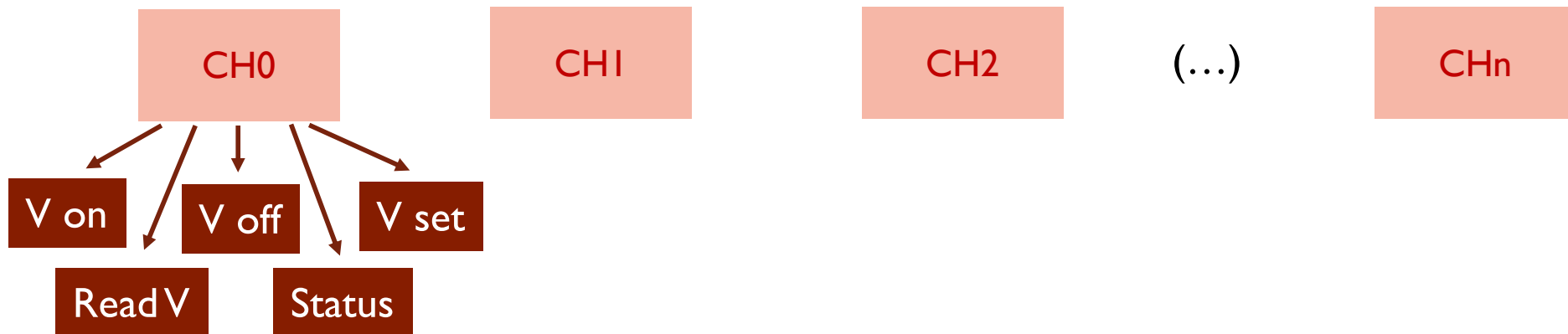


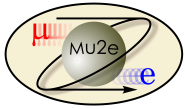
List of the information
(IP address, ports,
servers, routines....)

Transfer the info

Register every action

- **FE:**





Status @ LNF and next steps



- Optimizing Vitruvio to “talk” with the HV supplier that we have here (partially broken) [late today/tomorrow completed]
- In shipment 2 HV and 2 LV from FNAL, buying a switch ethernet
- Plan to prepare a smaller setup to use with the Module0_v2
- Work in progress:
 - Already installed EPICS+Phoebus locally
 - starting process of communication between Vitruvio and Epics
 - Preparing layout for Phoebus GUI
 - HV e LV supplies will be used as a test bench for the procedure



SPARE

