

GRIT BEE

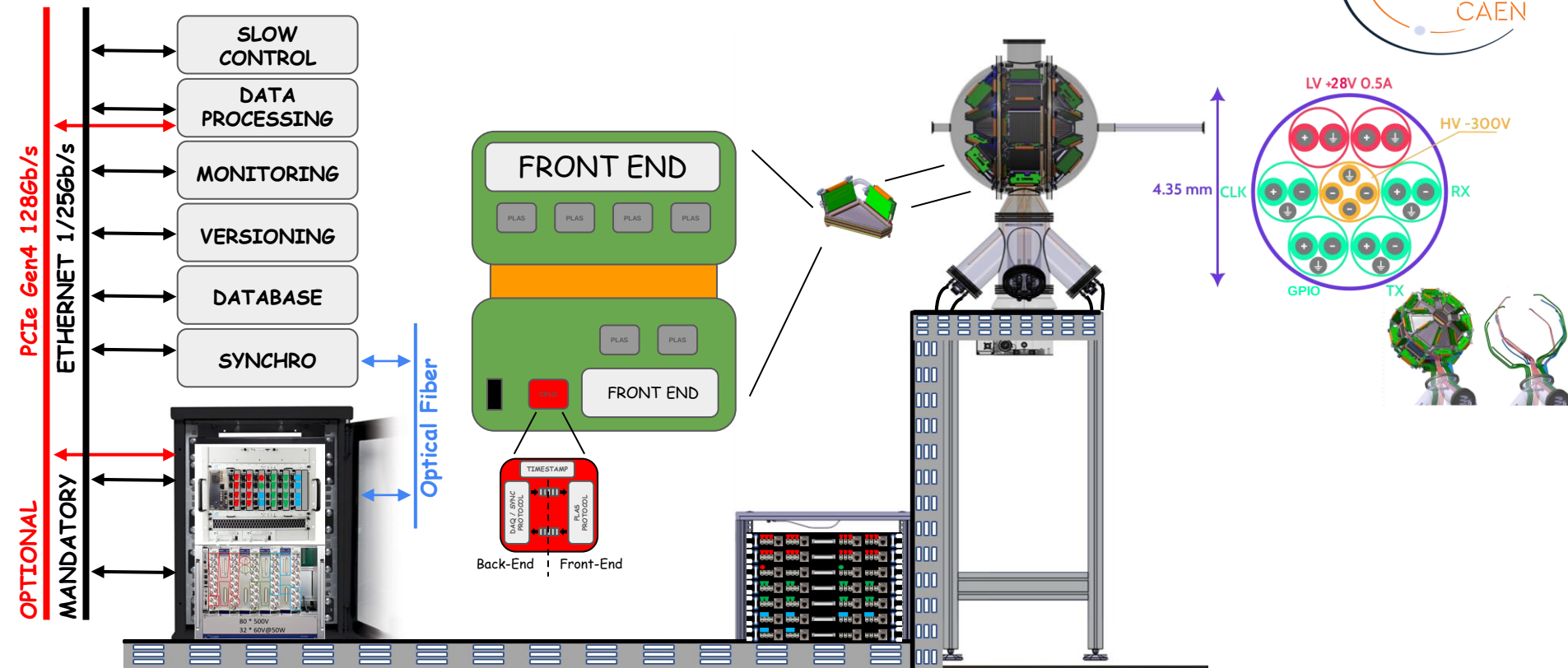
Granularity, Resolution, Identification, Transparency



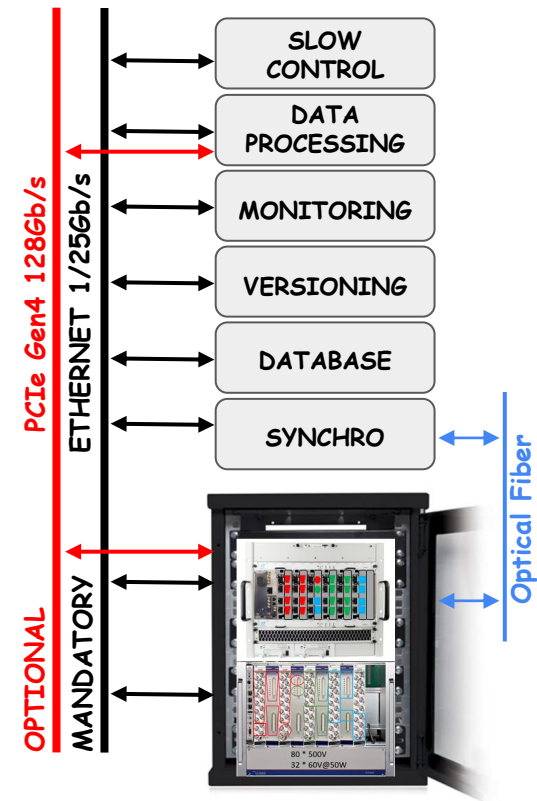
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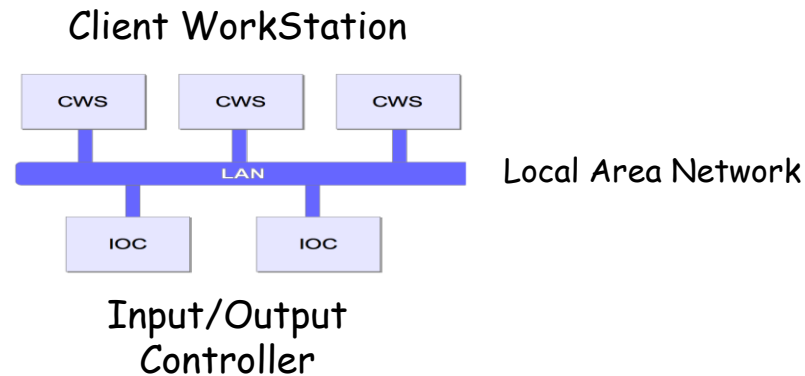
GRIT BEE → Overview



GRIT BEE → Slow Control

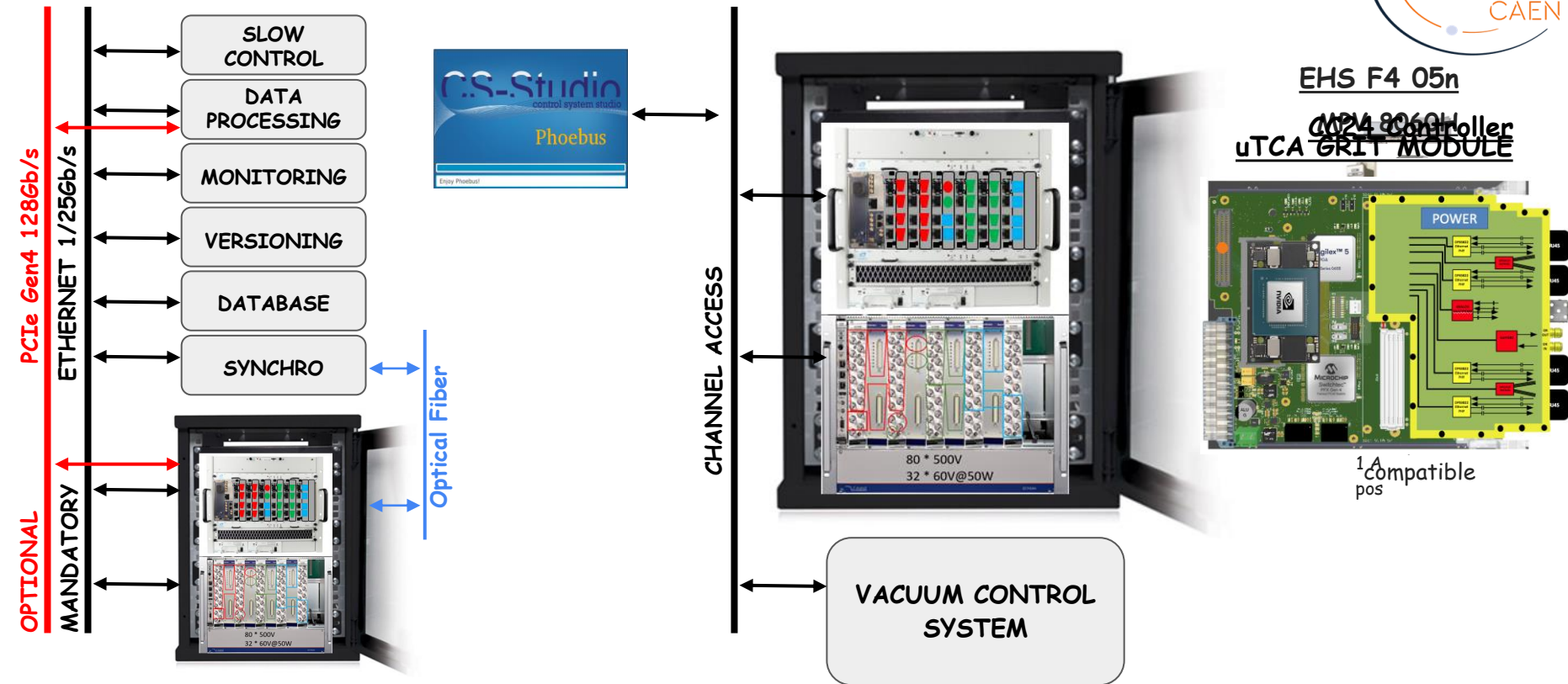


A simple EPICS control system can be composed of one or more IOCs and Client WorkStations that communicate over a LAN

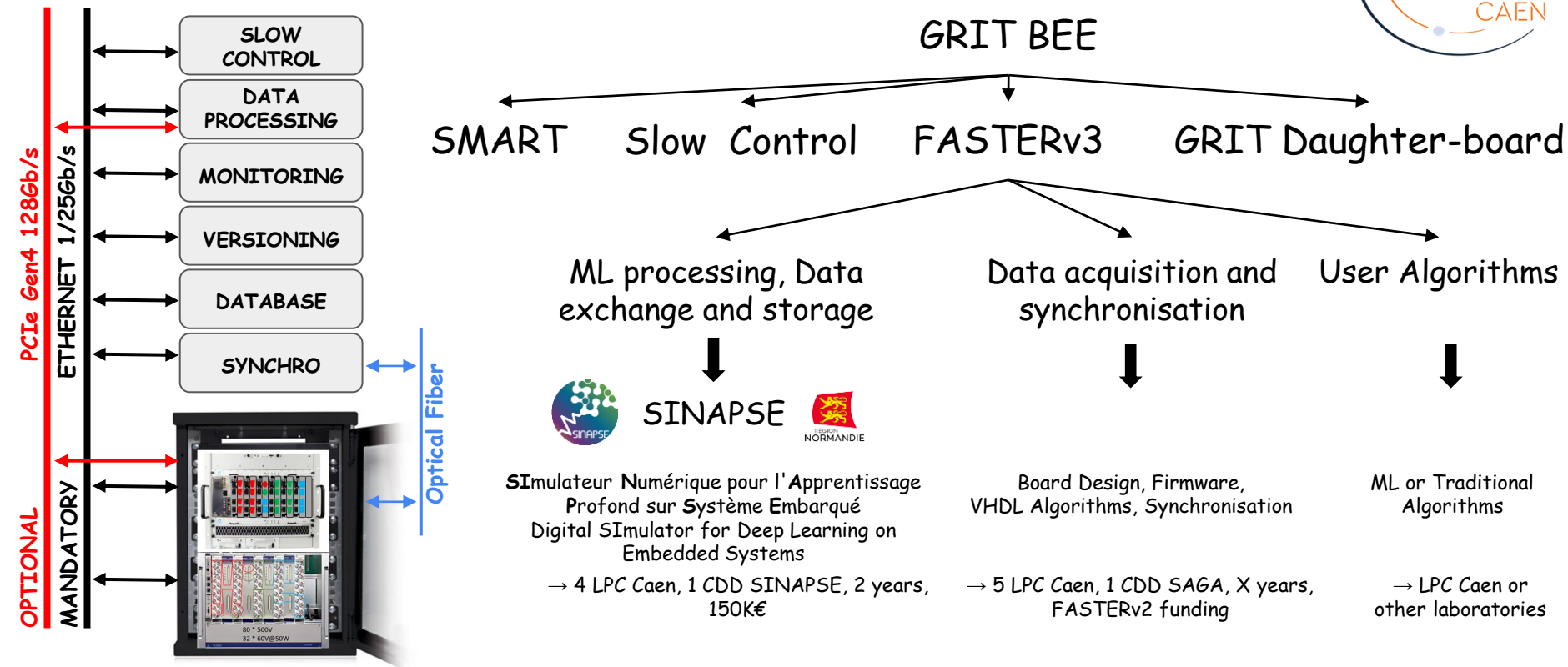


<https://epics-controls.org/>

GRIT BEE → Slow Control

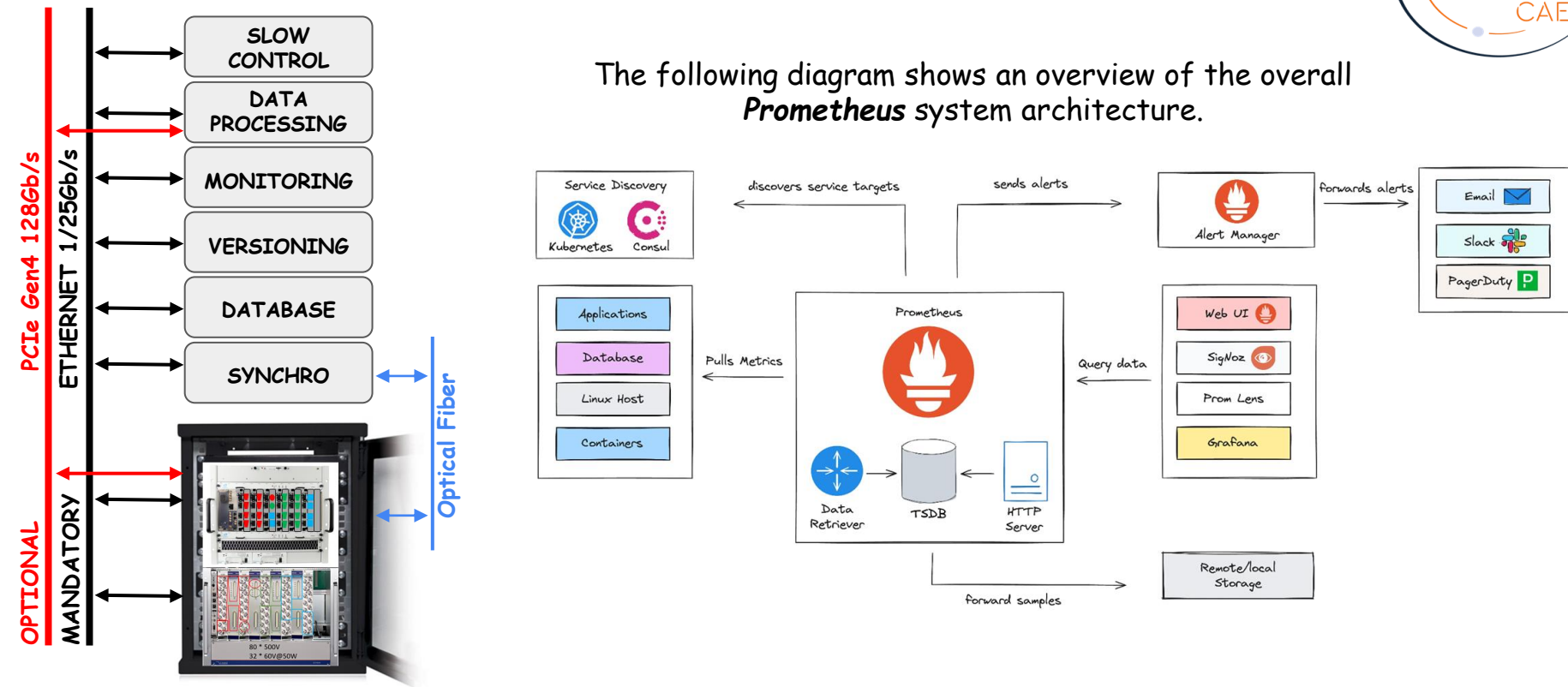


GRIT BEE → Data Processing



GRIT BEE → Monitoring

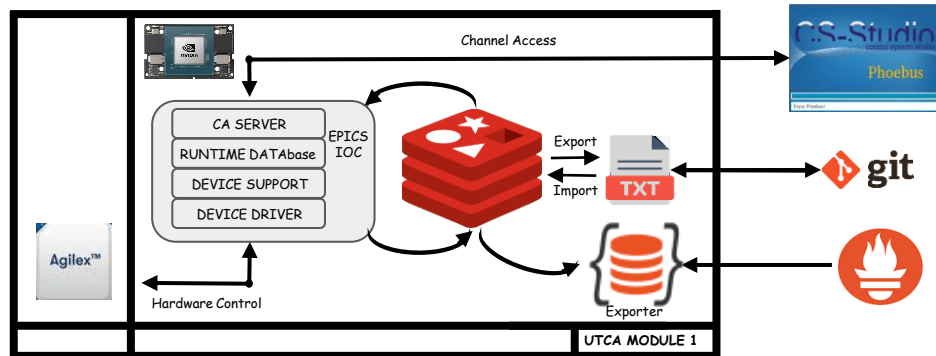
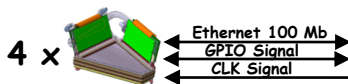
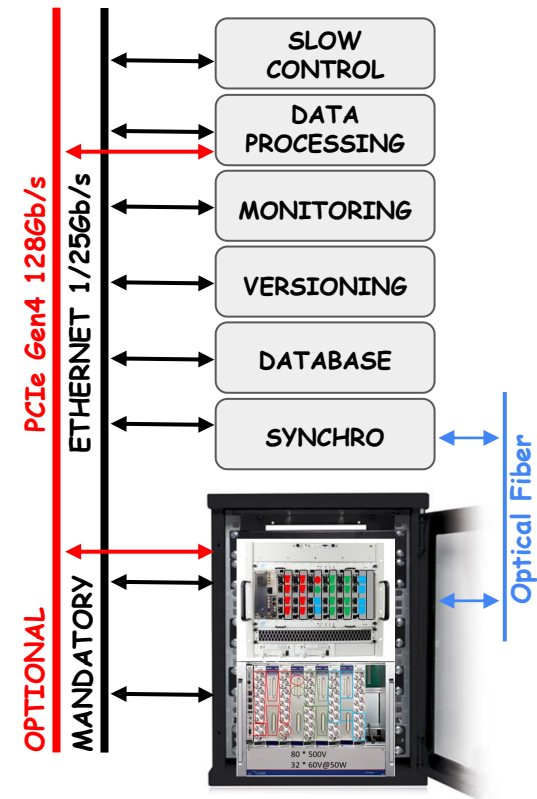
The following diagram shows an overview of the overall *Prometheus* system architecture.



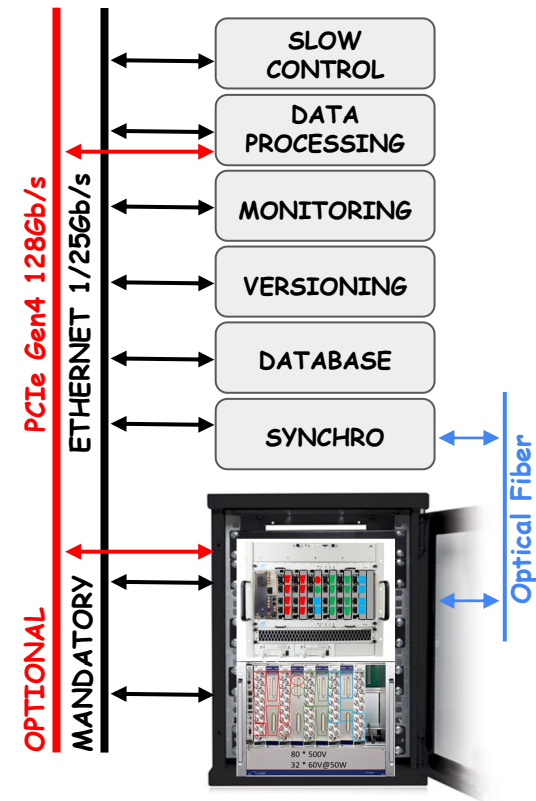
GRIT BEE → Versioning/DATABASE



- Git for the versioning
- Redis for the DATABASE



GRIT BEE → Synchro



MASTER A10 Box

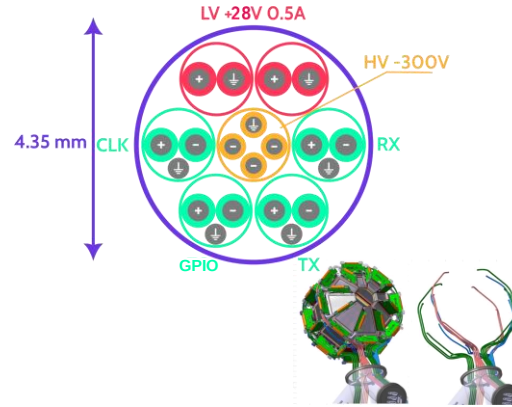
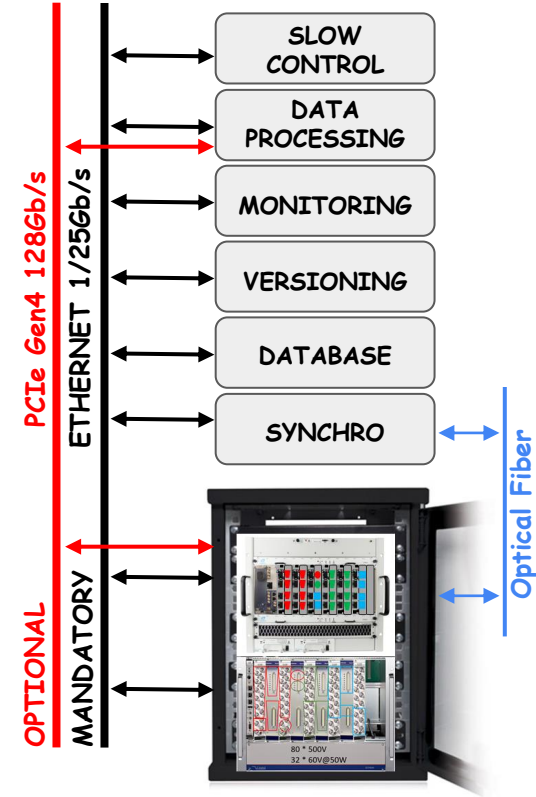
- FASTERV2/SMART bridge
- 2 timestamps in a FASTERV2 UDP frame
- Test of WHITE Rabbit 

FASTERv3

- uTCA FASTERV2/WR bridge
- uTCA FASTERV2/SMART bridge
- For other uTCA boards in a FASTERV3 system
→ Either a SMART or a WR End Point



GRIT BEE → Synchro → GPIO Signal



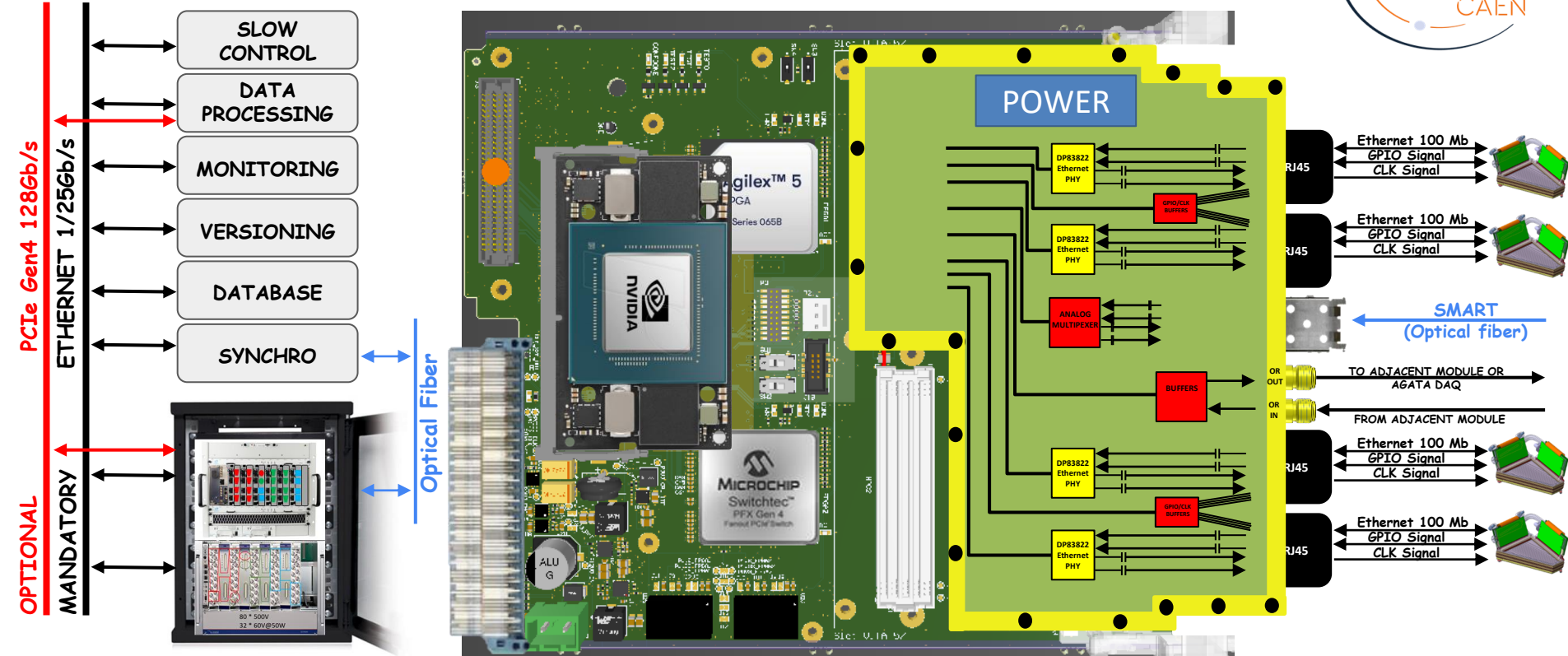
GPIO → **General-Purpose Input-Output Signal**
If DAQ is not running (Output Signal)

- CS → Common Start
- TU → Update timestamp registers in CPLD front end boards
- PP → Ping Pong (Cable Measurement length, Output/Input)

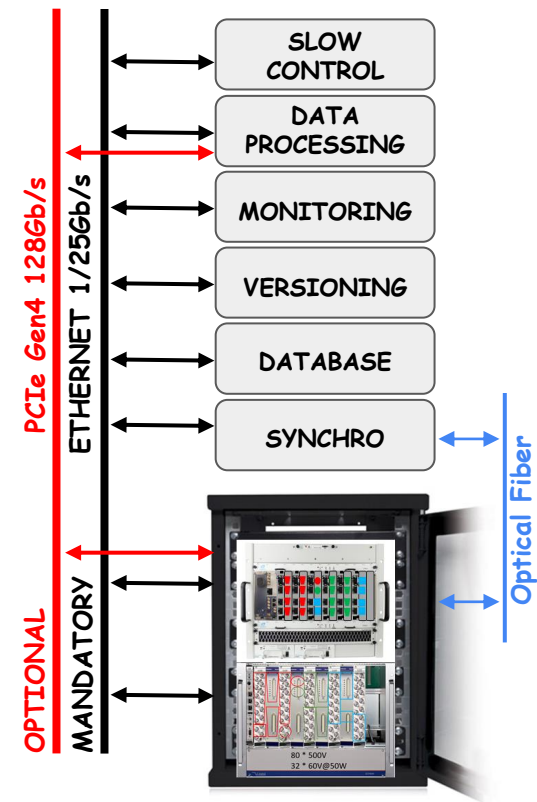
If DAQ is running (Input signal)

- TRIG → Trigger signal from all PLAS devices of the front end boards

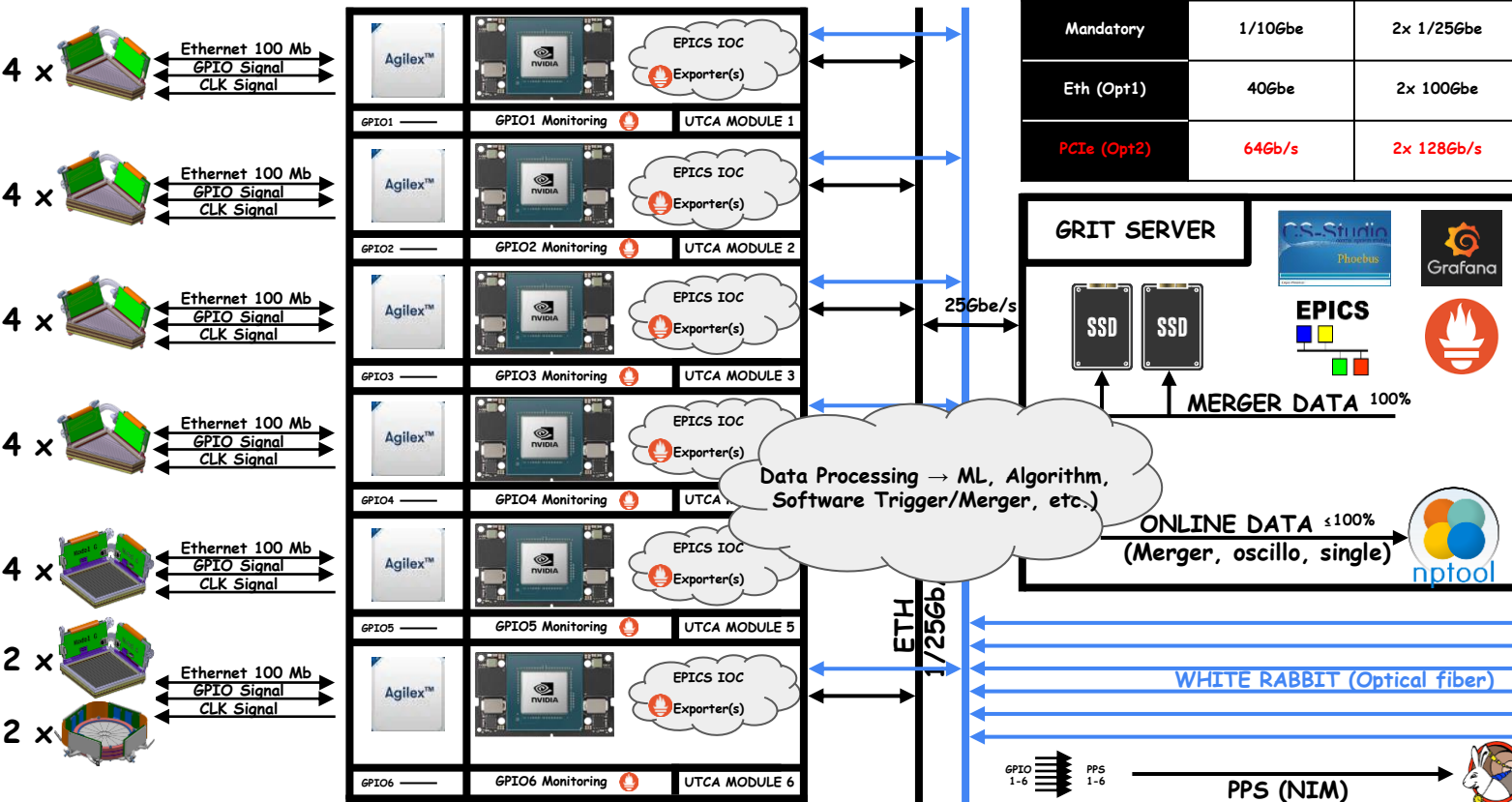
GRIT BEE → Synchro → GRIT Daughter-Board



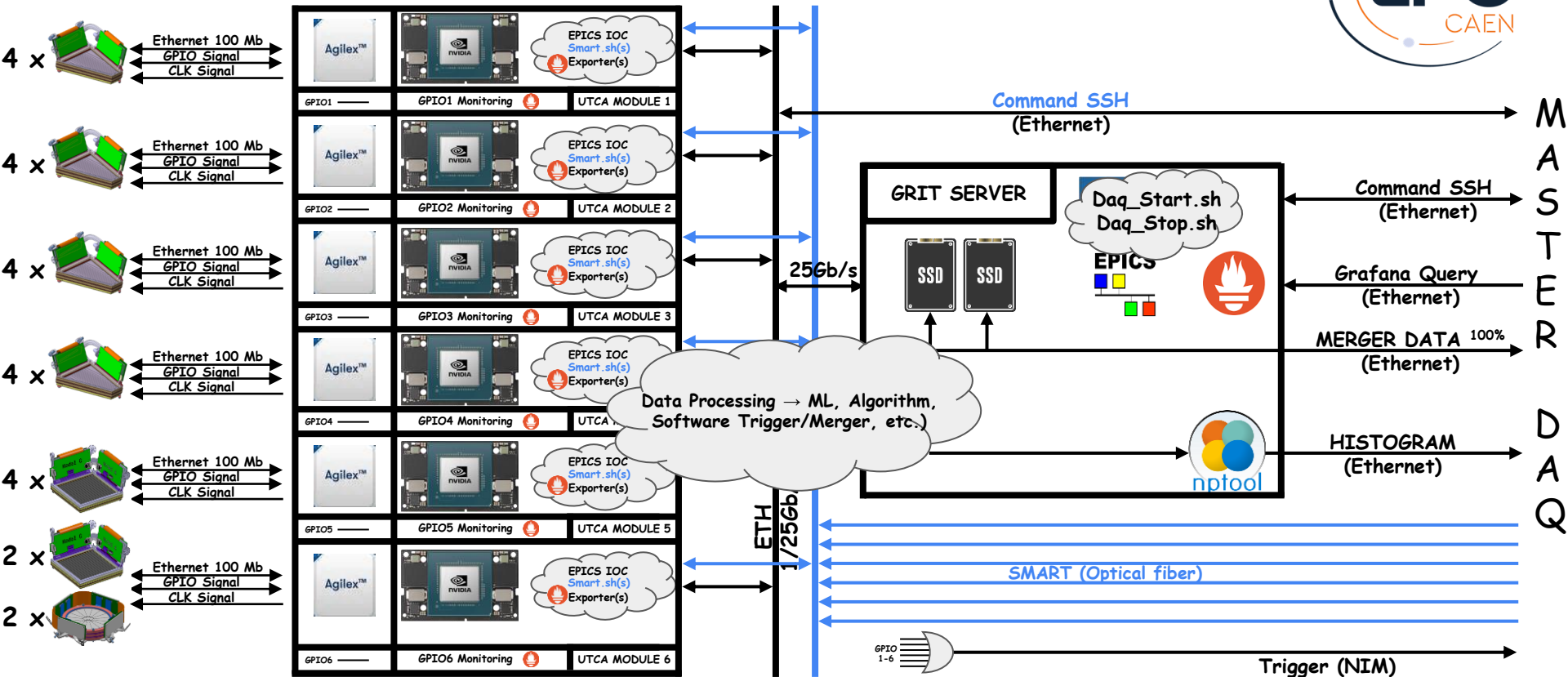
GRIT BEE → Standalone VS AGATA-GRIT- VAMOS mode



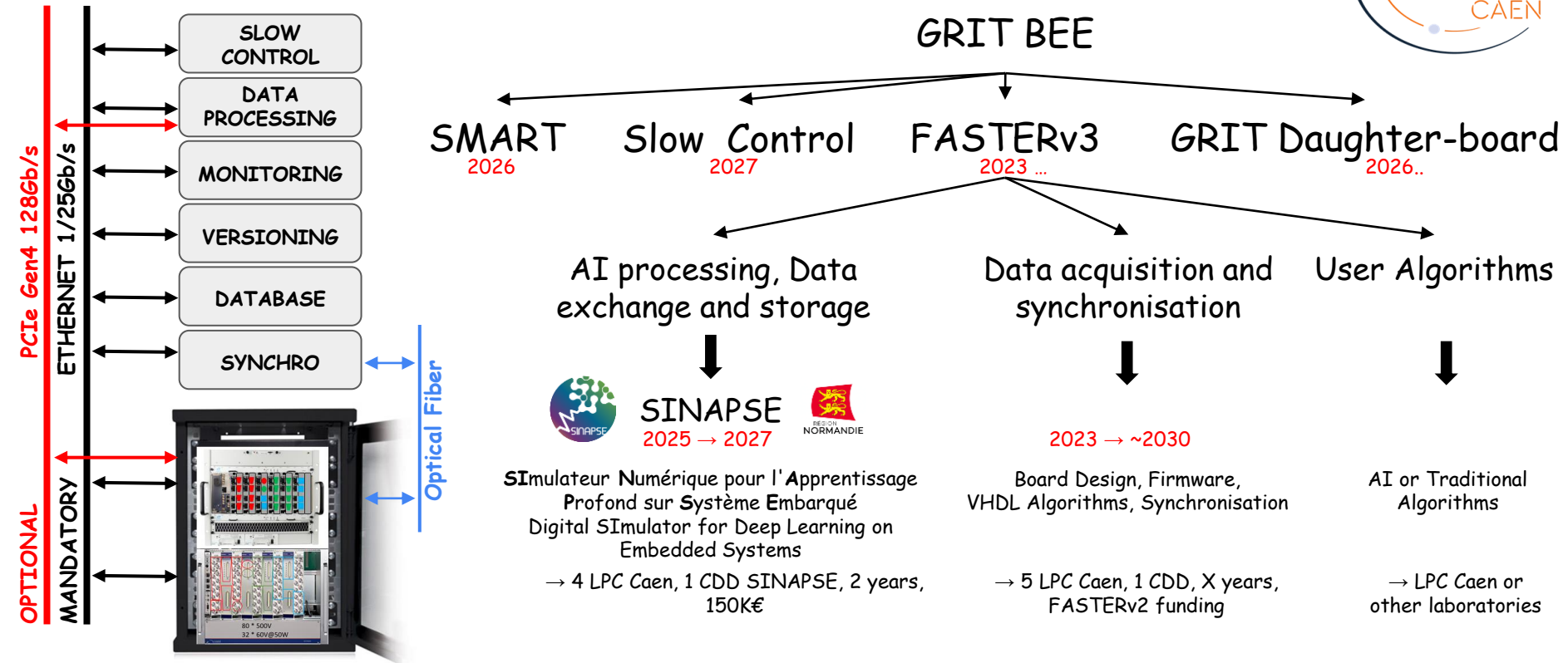
GRIT BEE → Standalone mode



GRIT BEE → AGATA-GRIT-VAMOS mode



GRIT BEE → Calendar



Thank you
for your attention

