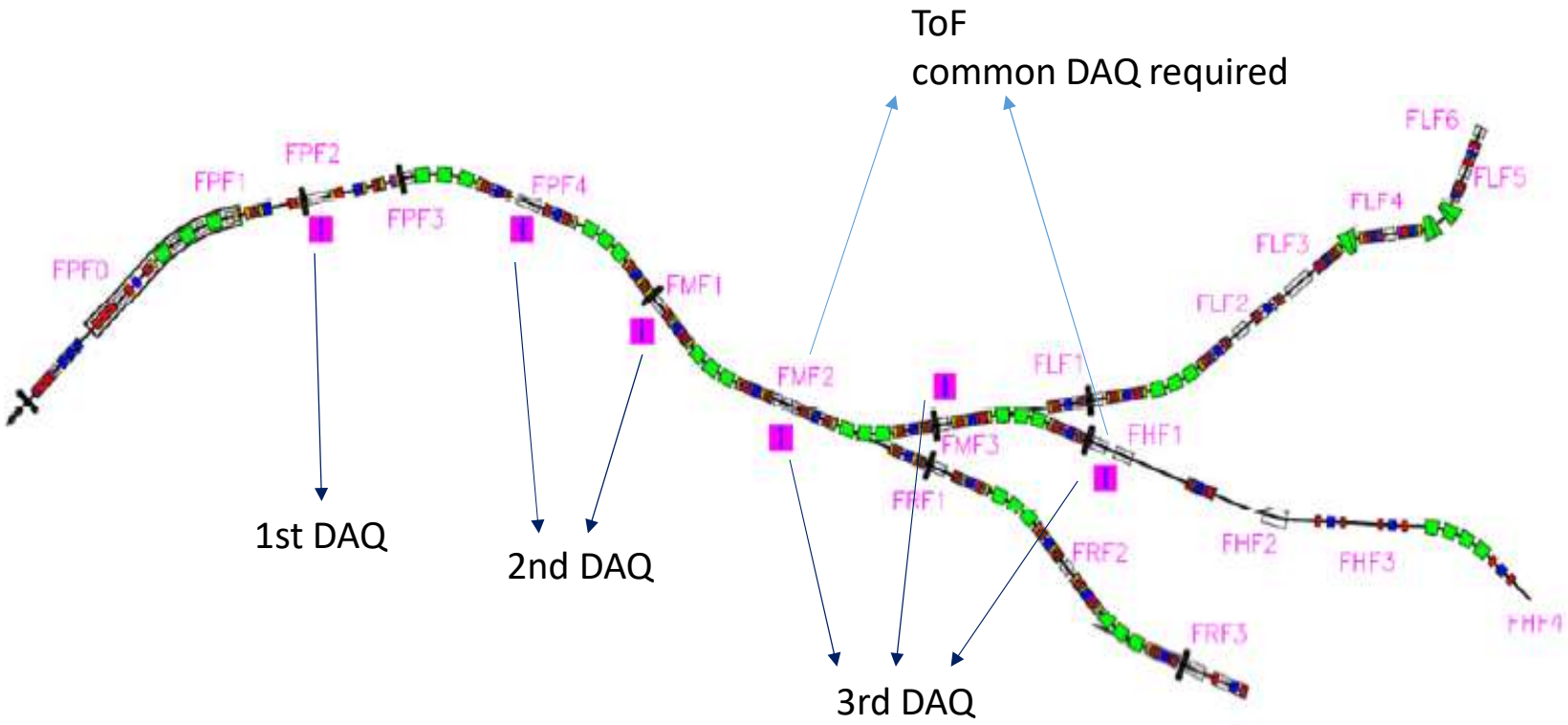
DAQ scheme of the SFRS plastics scintillators

- The single electronics schemes of each focal planes configured into a DAQ scheme taking into account the cable database and the present plastic scintillator readout for ES.

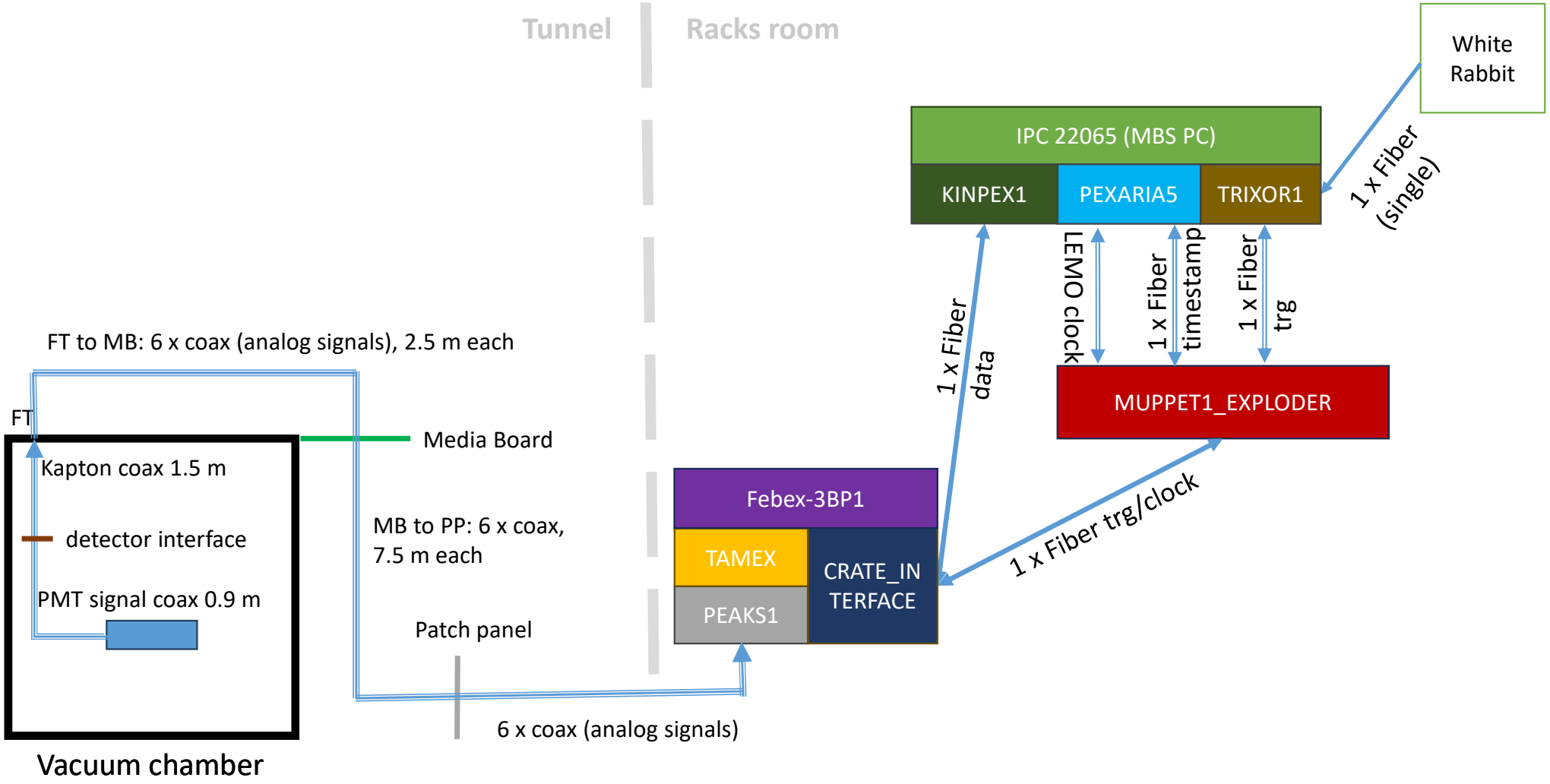
- We configure 3 DAQ systems to be synchronized via White Rabbit.

Motivation

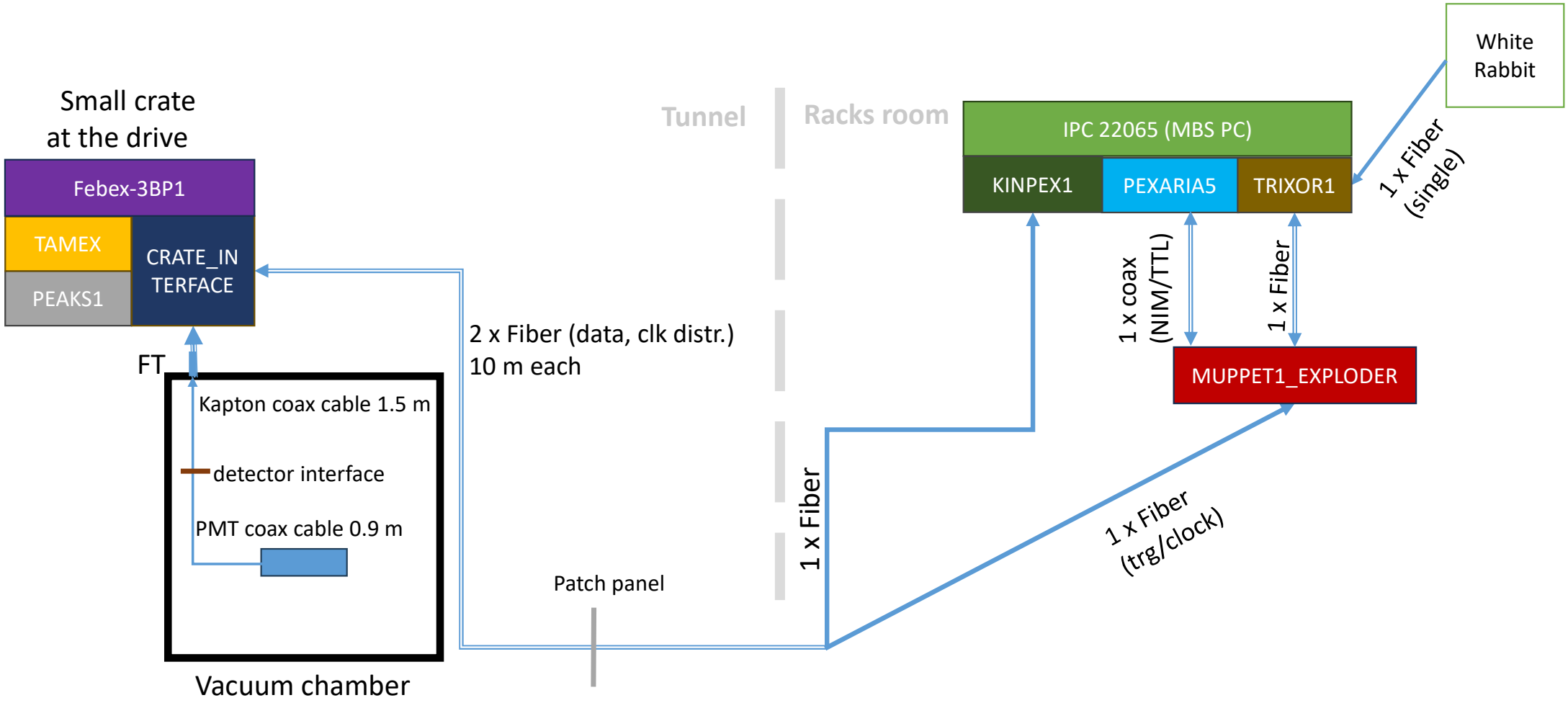
https://git.gsi.de/mreese/mbs-setups/sfrs-tof



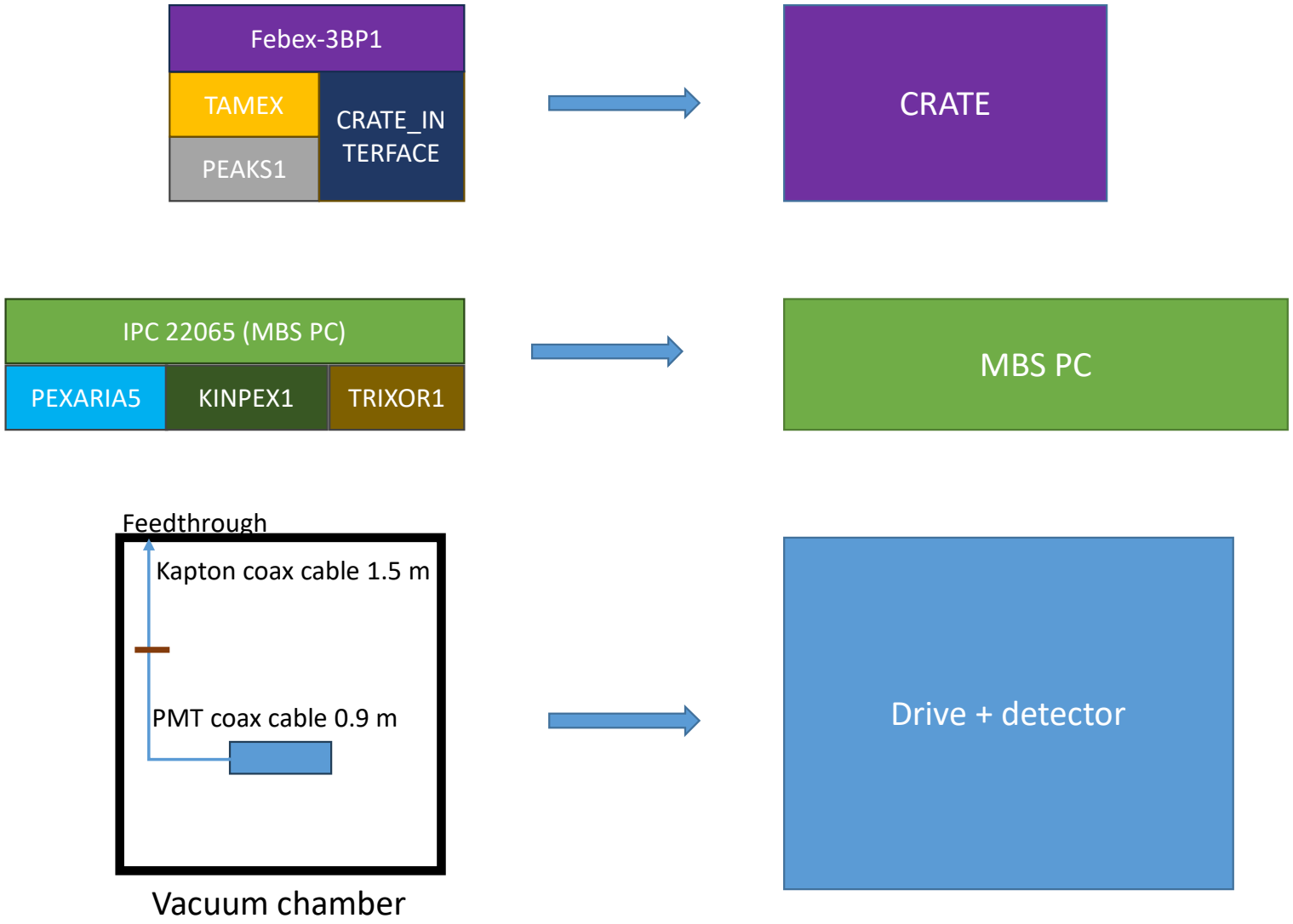
Pre-separator DAQ electronics (FPF2, FPF4)



Main separator DAQ electronics (FMF1, FMF2, FMF3, FHF1)

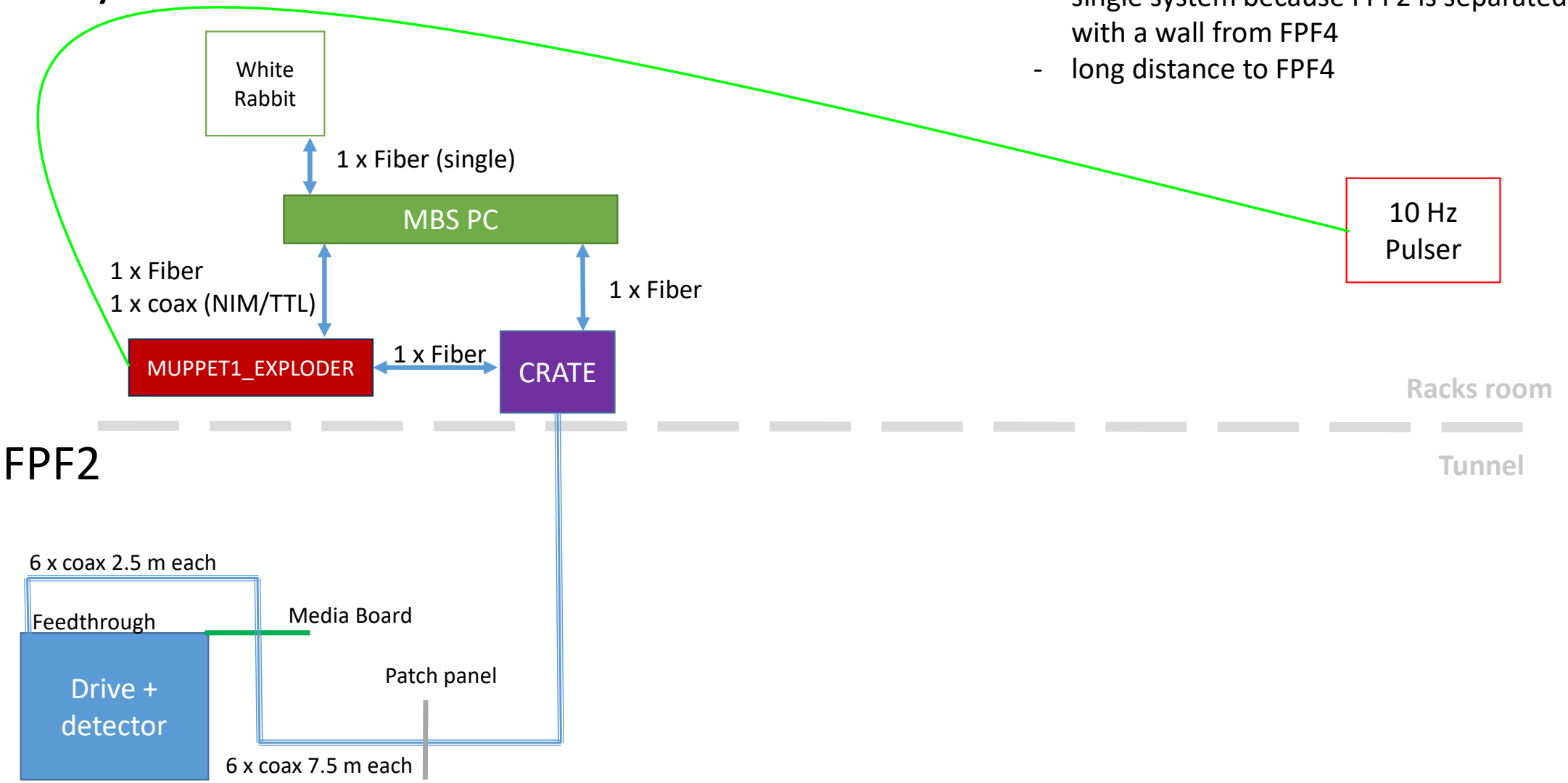


Architecture of Plactic Scintillators FEE+DAQ in SFRS



System 1

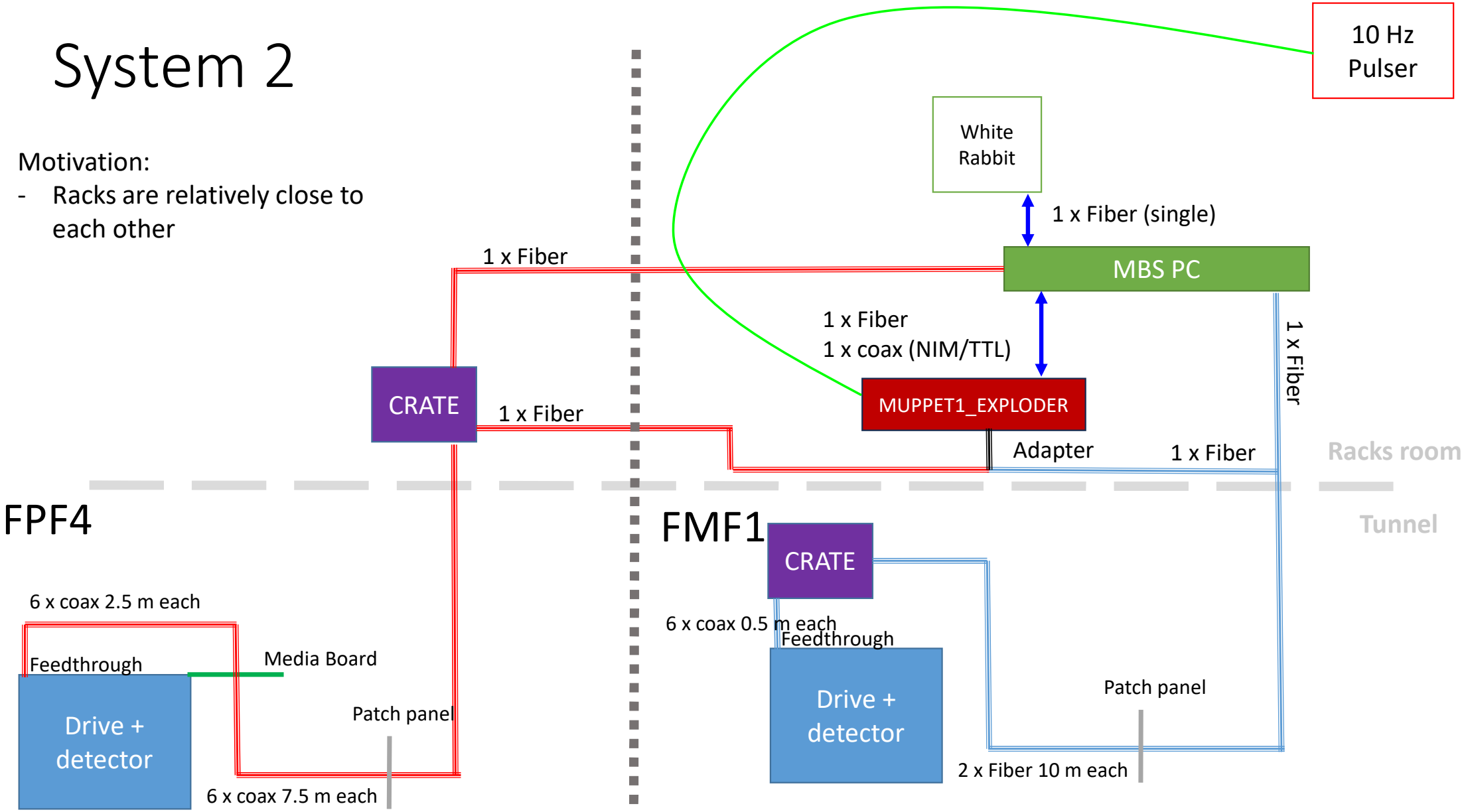
Motivation:
- single system because FPF2 is separated with a wall from FPF4
- long distance to FPF4



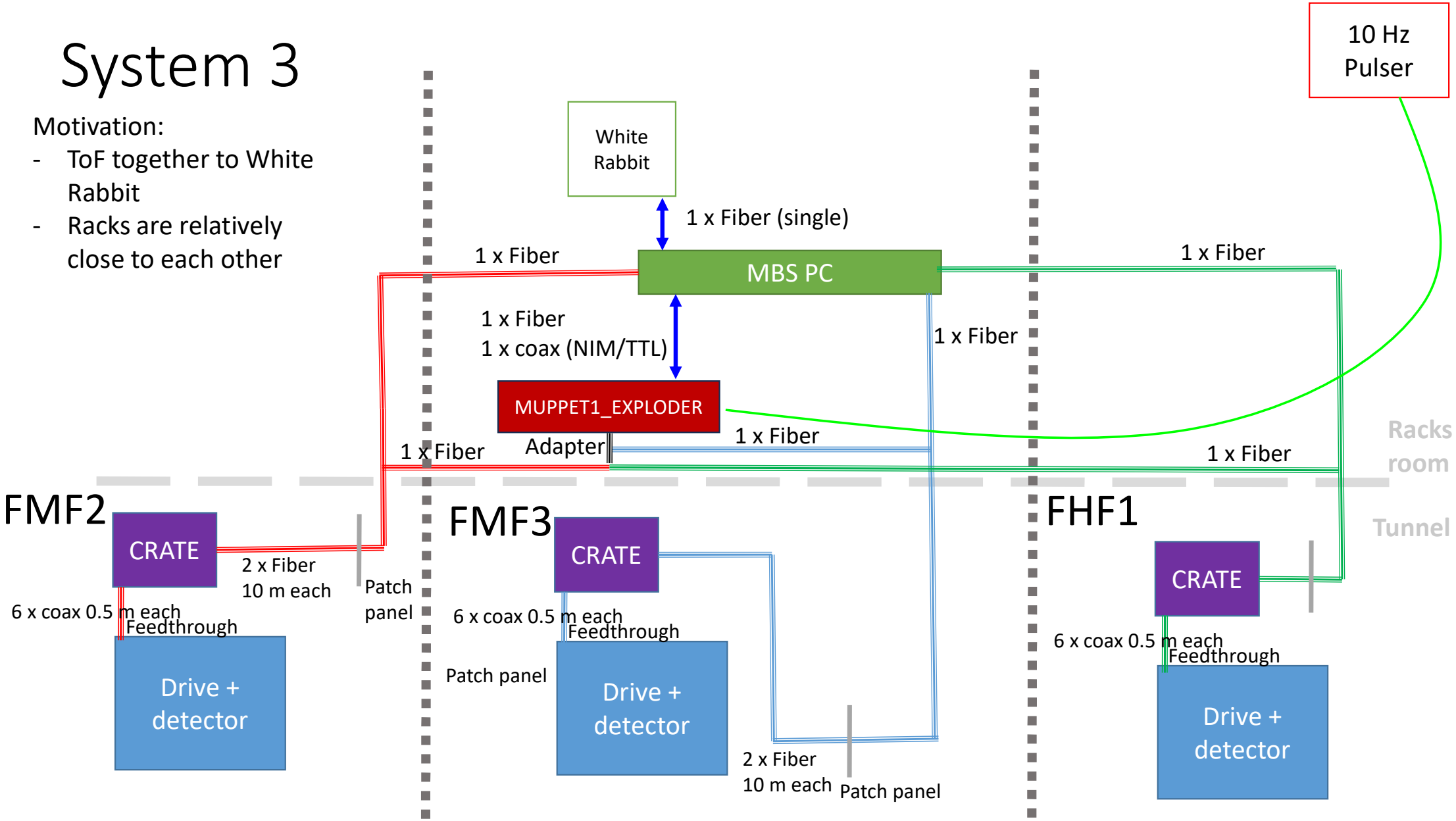
System 2

Motivation:

- Racks are relatively close to each other



System 3

Motivation:

- ToF together to White Rabbit
- Racks are relatively close to each other