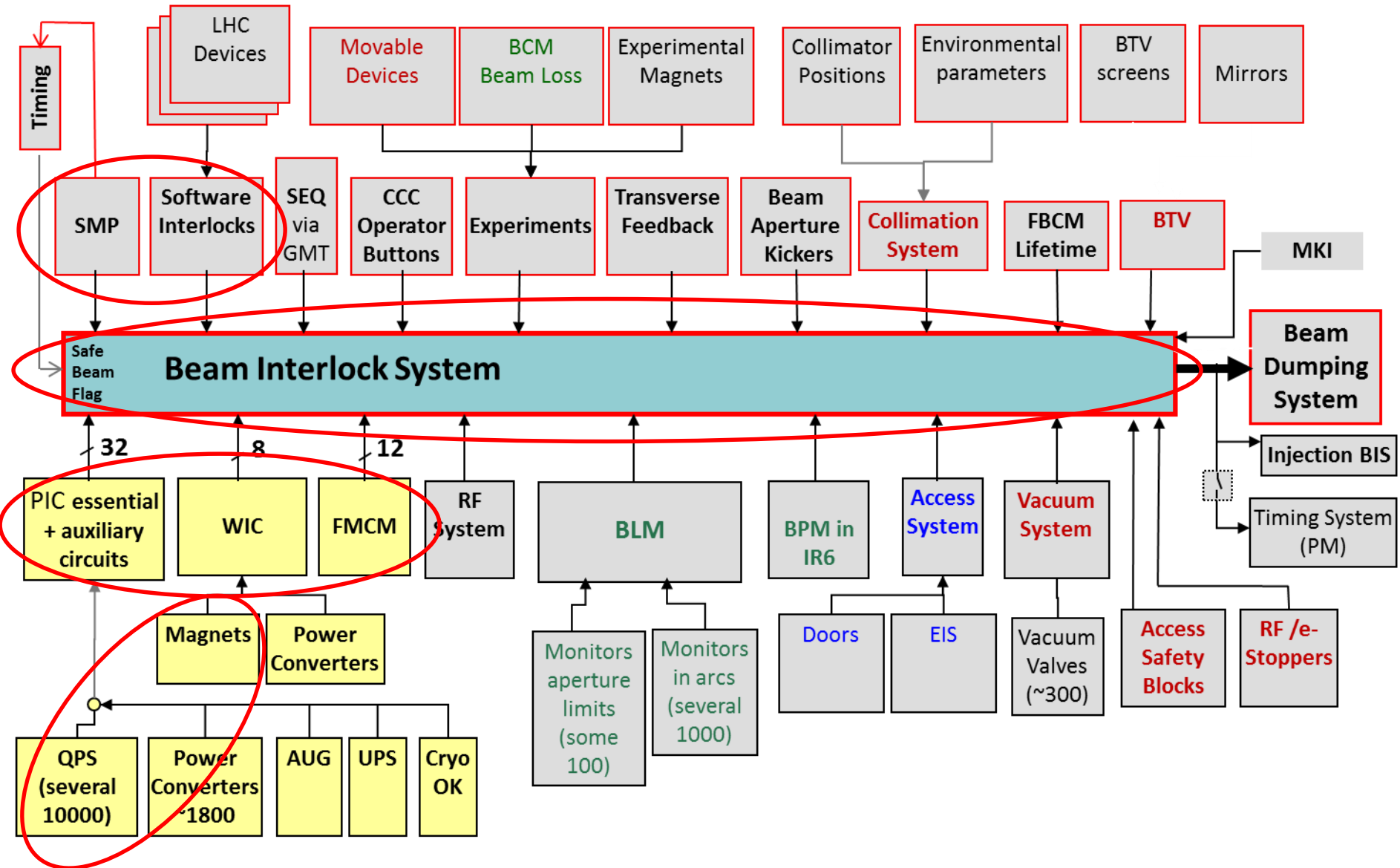


# Introduction to Activities of TE-MPE-PE

A. Apollonio

# MPE Activities



# Activities TE-MPE-PE

## Circuit Modeling

- Quench studies (LHC, HiLumi, FCC)
- LHC circuit issues (shorts, voltage transients, etc)
- CLIQ analysis
- STEAM



MP3

## Beam Impact & Machine Protection

- Damage limits on superconductors
- Machine protection (LHC, HiLumi, FCC, CLIC)
- Hydrodynamic tunnelling
  - Diamond BLM's



MPP

- QPS thresholds

- UFO studies
- Beam induced quenches
- BLM thresholds



BLMTWG

- Fast beam losses

- R&A on LHC, HL-LHC, FCC
- R&A on linear colliders
- Accelerator Fault Tracking



AWG

## Reliability & Availability

A. Verweij