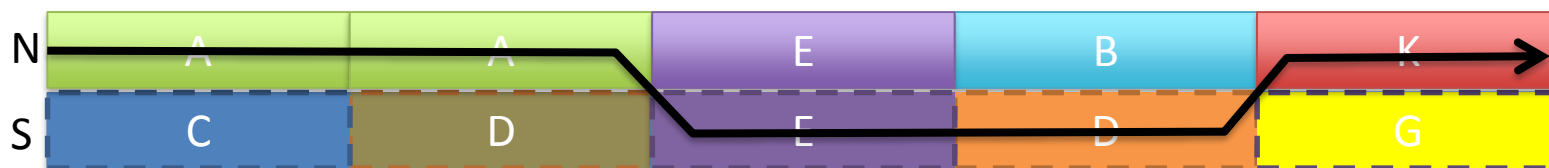
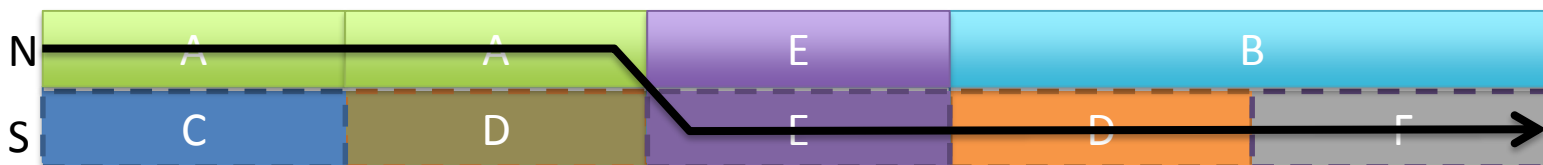
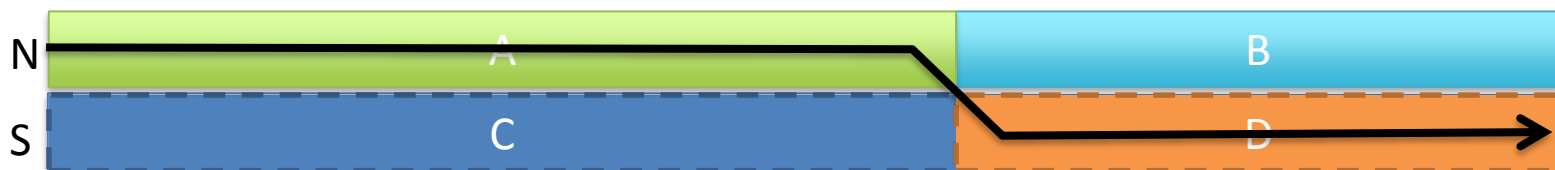




# External Condition LS2 Upgrade

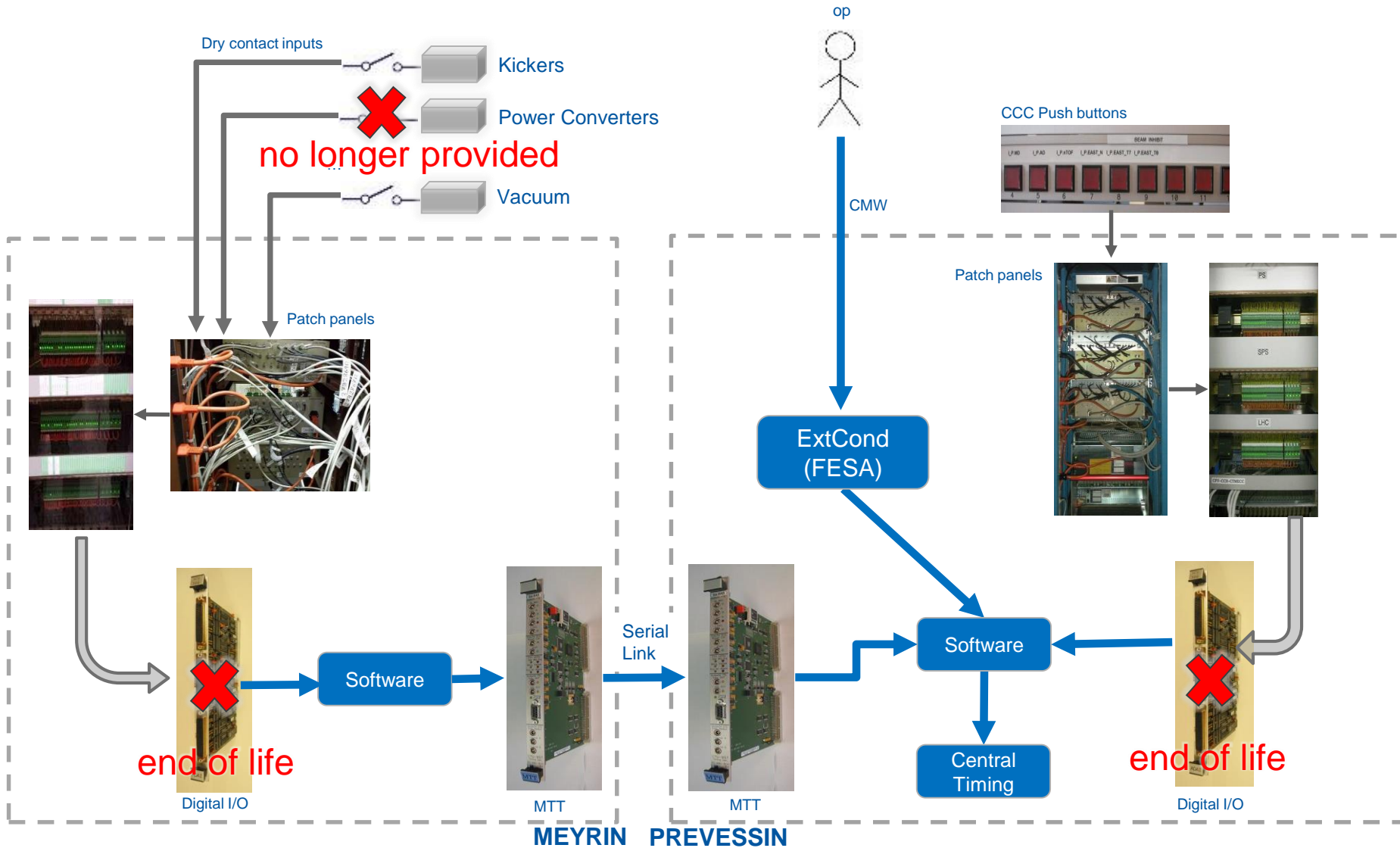
# External Conditions

## Spare Beams and Beam Coordination Diagram (BCD)

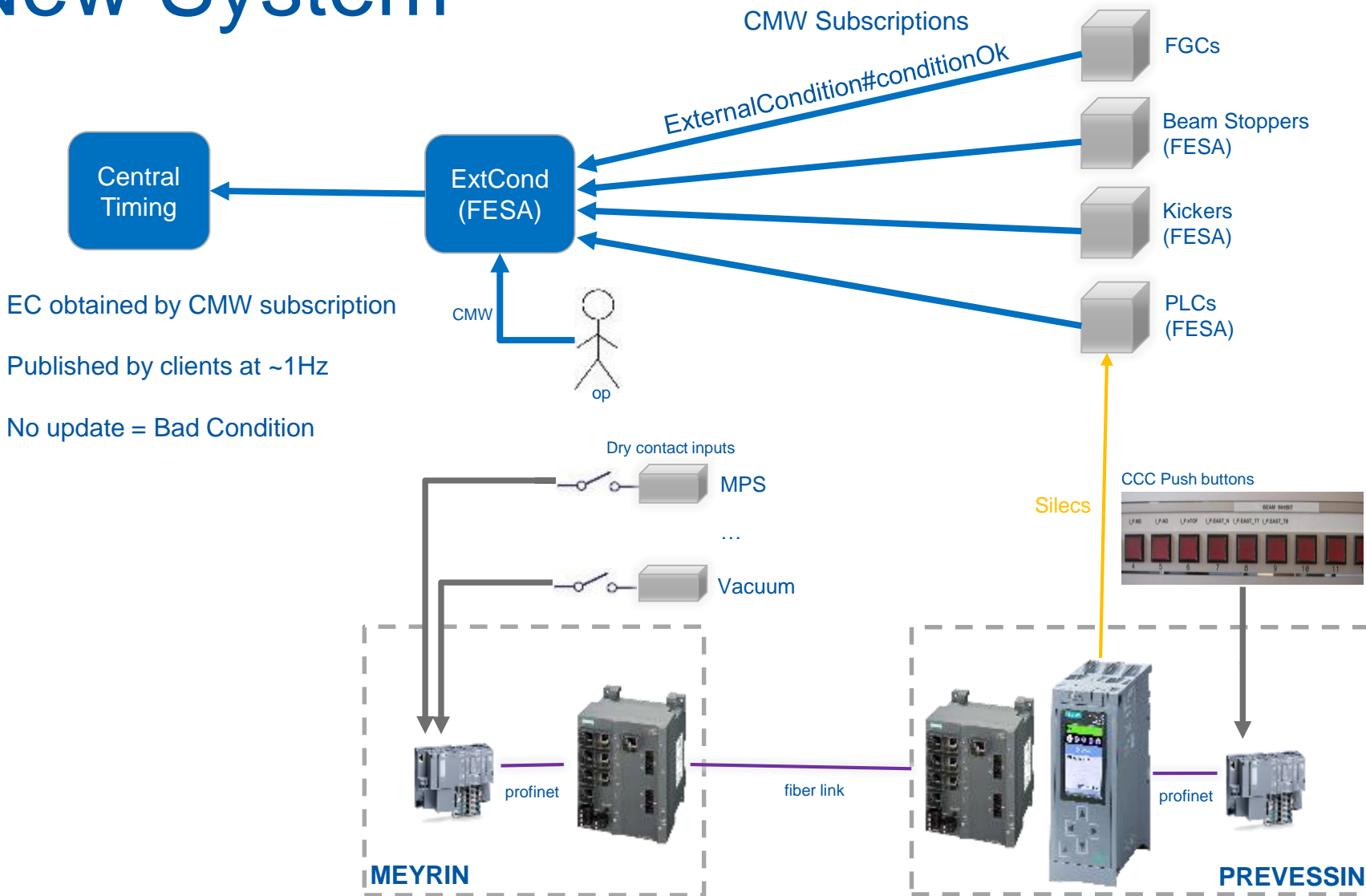


**Normal or Spare? → External Conditions**

# Current System



# New System



# Summary

## External Conditions

- Is a mixed HW/SW system
- Provides operational flexibility – but is not fault tolerant

## After LS2 renovation it will...

- Use industry standard hardware
- Use CERN standard SW interfaces (CMW/FESA)

