

Universität
Münster

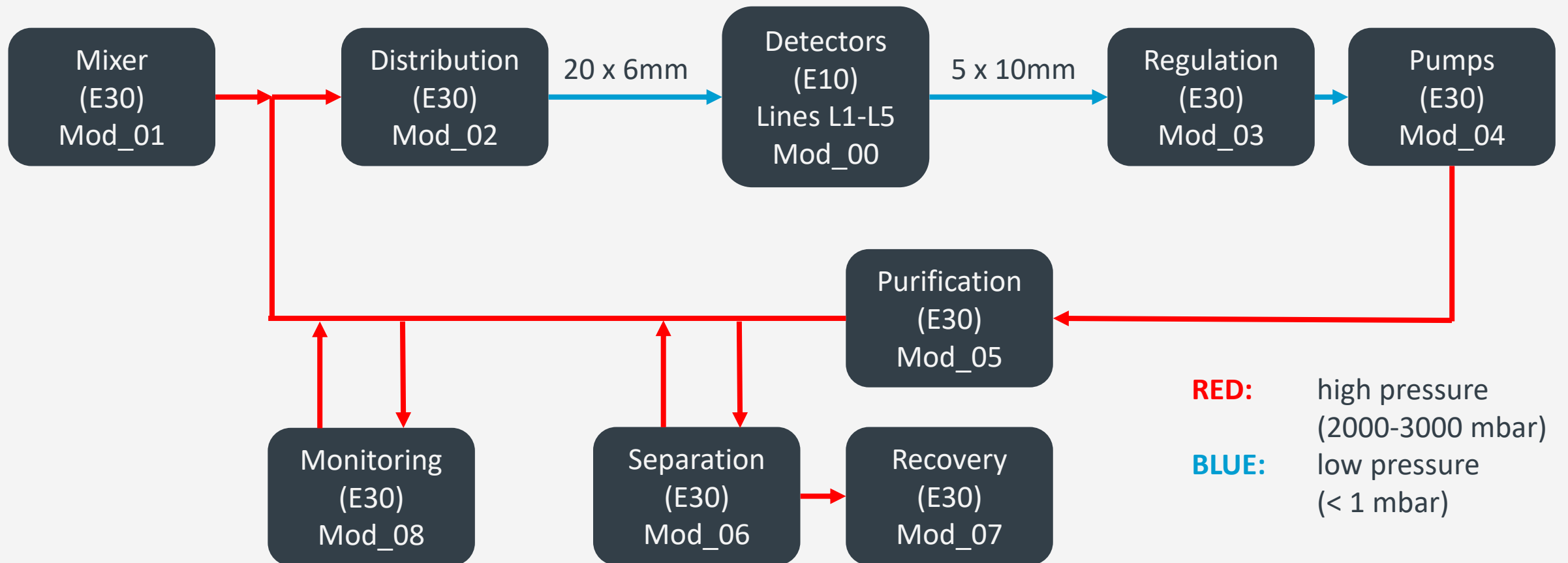
CBM Gassystem P& ID, GCS (PLC)

Status & development

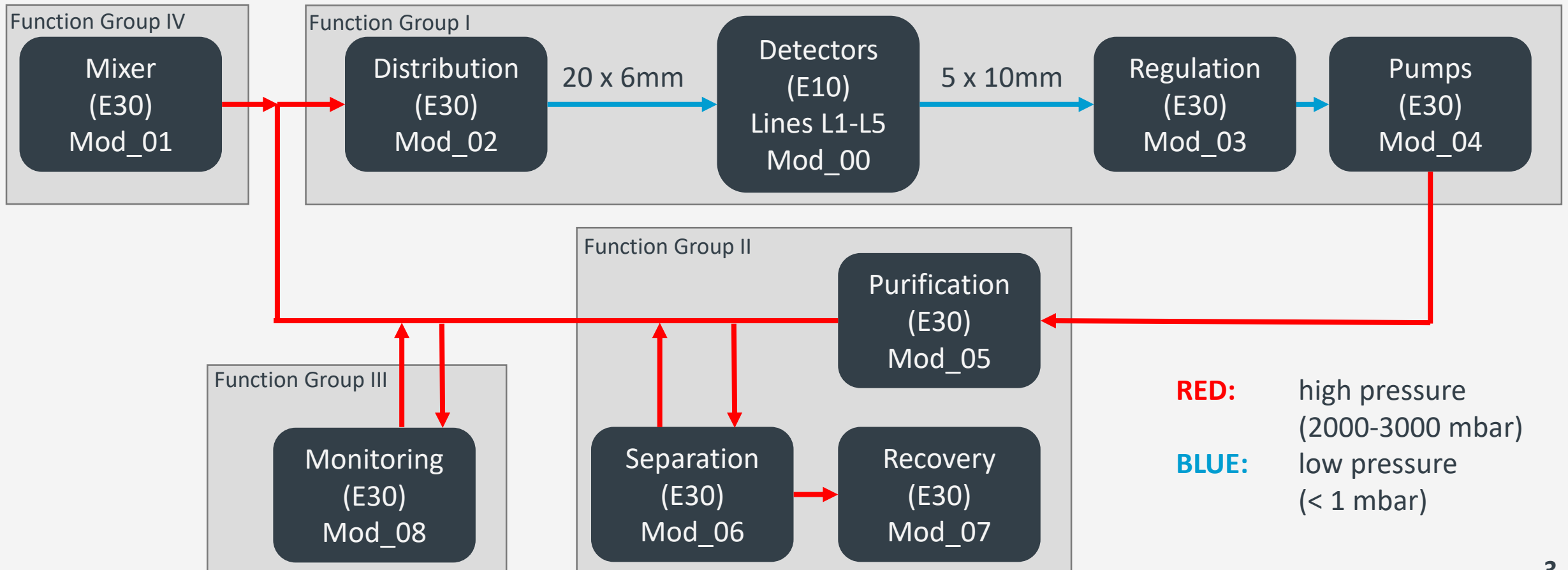
Daniel Bonaventura



Gassystem functional overview



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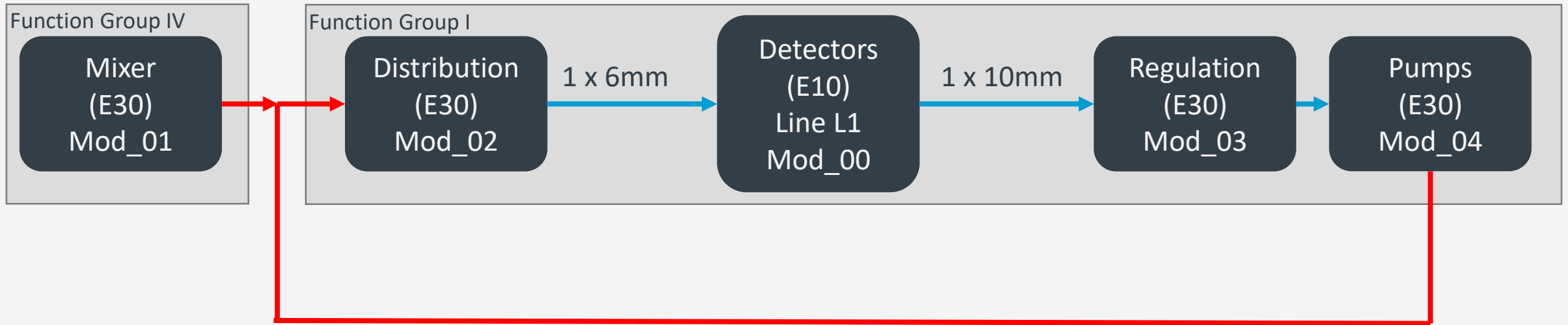
Function Group I :	Low pressure line for detector gas supply (distribution, regulation, circulation)
Function Group II :	Gas preparation (purification, separation, recovery)
Function Group III :	Monitoring (gas composition & quality -> chromatograph)
Function Group IV:	Mixer (Gas distribution and composition for filling / refilling)

Gassystem functional overview

Each Function Group needs:

- Mechanical / Electrical Layout (components, materials, interfaces)
- P& ID Scheme
- PLC (logic control e.g. GasControlSystem)

Gassystem: Münster testline



What do we have:

- Mechanical / Electrical Layout for the testline (set up in Münster)
- „test“ PLC, only for development purposes of the testline
- Rough P&ID Scheme

Gassystem: To be done

- Design work on the different function groups (who does what?)
- Definition of operation modes for the gassystem
- P&ID Schemes for all function groups (define tool to be used for interchangeability)
- One P&ID Scheme for the whole system (based on the function group designs)
- PLC (GasControlSystem) for the whole system (to be defined)
- Realisation / manufacturing of the needed hard- & software for each subsystem
- Installation, comissioning & operation of the gassystem at CBM-FAIR, Darmstadt (who?)