Project Goal

Guarantee of Highly available Manufacturing processes
Solution approach (local): HA machine, Data Collection I
Solution approach (local): HA machine, Data Collection II

Different approaches depending on machine and type of CNC:
- Open CNC architecture:
  - Easy to access all data
- Proprietary solution:
  - Interfaces needed
Solution approach (local): HA machine, Data Collection III

Open CNC architecture: Beckhoff TwinCAT III

CNC, PLC and I/O accessible
Solution approach (local): HA machine, Data Collection III
Proprietary solution with customized Bus Interface

- HMI (Human Machine Interface)
- PLC (Programmable Logic Controller)
- NCK (Numerical Control Kernel)
- Machine I/O
- Data Acquisition (Digitization, Formatting)
- Signal Conditioning
- Servo System
- MySQL Database