



MOOG

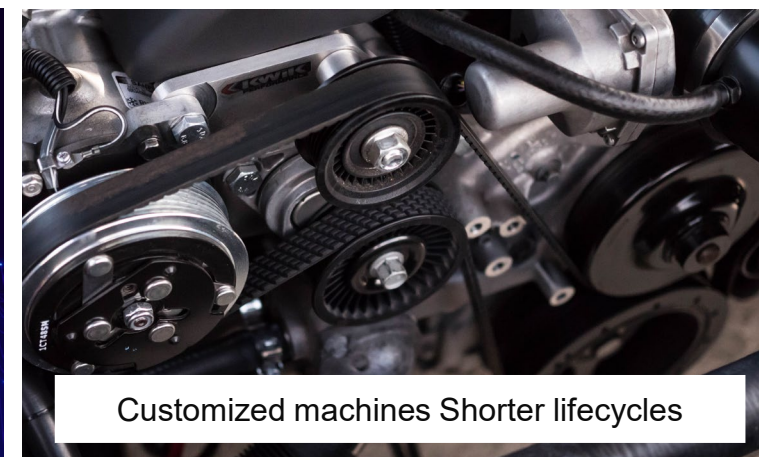
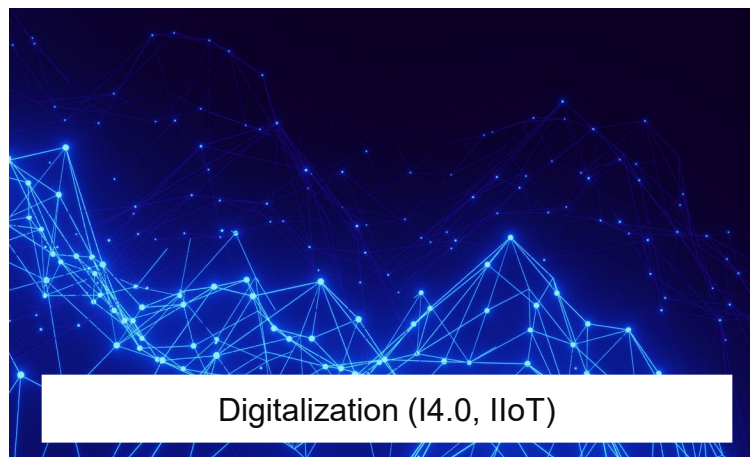
Shaping the way our world moves™

MOOG PRODUCT PRESENTATION SOFTWARE MODULES

Marketing | May 2024 | Version 1

INCREASING CHALLENGES FOR MACHINE OPERATORS & OEMS

MARKET TRENDS



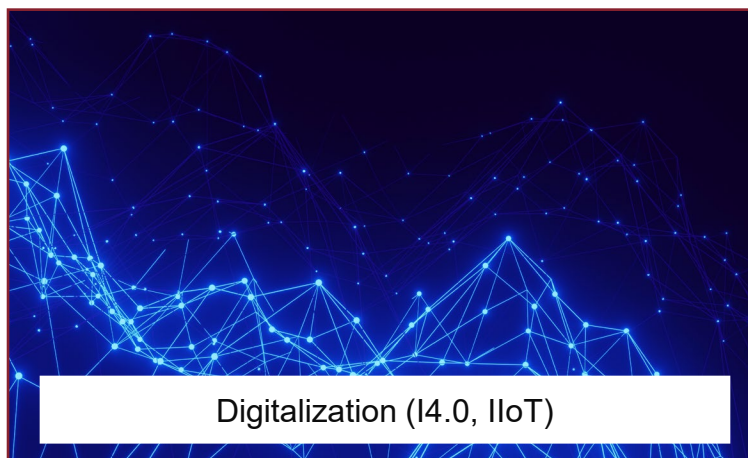
INCREASING CHALLENGES FOR MACHINE OPERATORS & OEMS

TODAY'S CHALLENGES



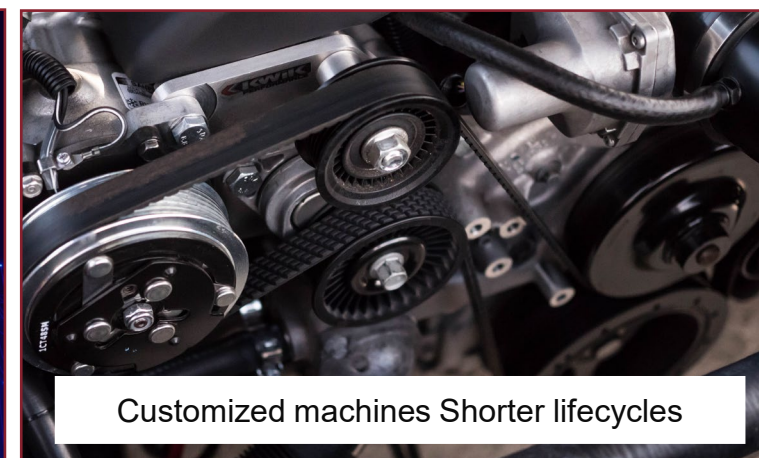
Energy Efficiency

Mixed Technologies
(EH, EM, EAS)



Digitalization (I4.0, IIoT)

Increased Complexity
(control, components, data)



Customized machines Shorter lifecycles

Fast & Efficient Product Development

SOFTWARE SOLUTIONS TO MASTER THE CHALLENGES

DEALING WITH MIXED TECHNOLOGIES

ACCELERATION OF DEVELOPMENT

REDUCTION OF COMPLEXITIES

MODULAR PORTFOLIO



EASY IMPLEMENTATION



DEALING WITH MIXED TECHNOLOGIES

ACCELERATION OF DEVELOPMENT

REDUCTION OF COMPLEXITIES

Simplified architecture +

Flexible choice of PLC +

Best-fit Technology +

Low Investment +



YOUR
BENEFITS

+ Application Know-How

+ Faster Commissioning

+ Ready to Use

+ Less Downtime

DEALING WITH MIXED TECHNOLOGIES

ACCELERATION OF DEVELOPMENT

REDUCTION OF COMPLEXITIES

Simplified architecture Flexible choice of PLC 

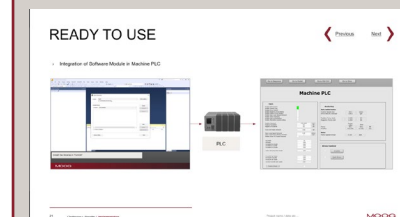
Best-fit Technology 

Low Investment 



YOUR BENEFITS

- › Regular updates
- › Simple user interface



+ Application Know-How

+ Faster Commissioning

Ready to Use

+ Less Downtime

DEALING WITH MIXED TECHNOLOGIES

ACCELERATION OF DEVELOPMENT

REDUCTION OF COMPLEXITIES

Simplified architecture



Flexible choice of PLC



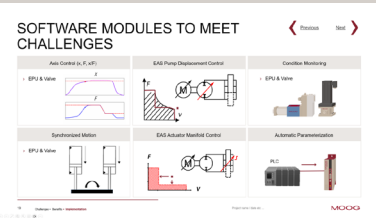
Best-fit Technology



Low Investment



- › Fits Moog Hardware
- › Simulation Tools
- › Technical Support



Application Know-How



Faster Commissioning



Ready to Use



Less Downtime

EPU & VALVE



CONDITION MONITORING

SYNCHRONIZED MOTION

VALVE AXIS CONTROL

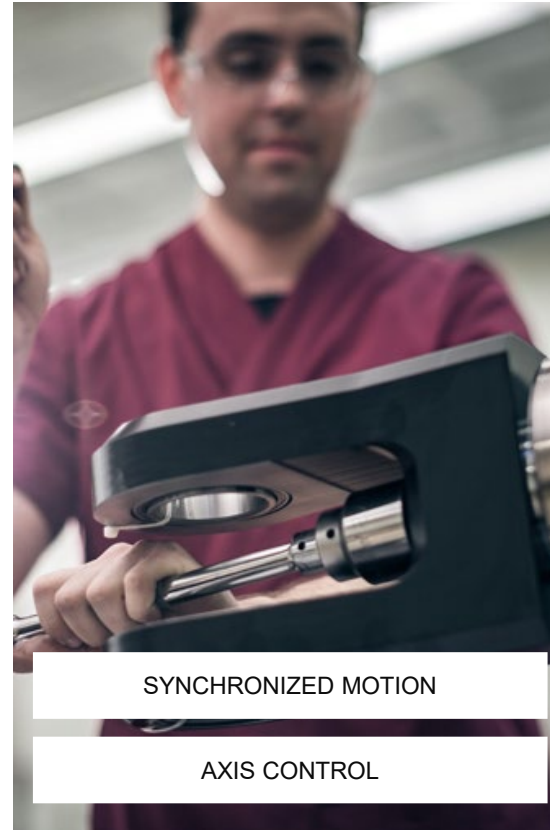
EAS



ACTUATOR MANIFOLD CONTROL

PUMP DISPLACEMENT CONTROL

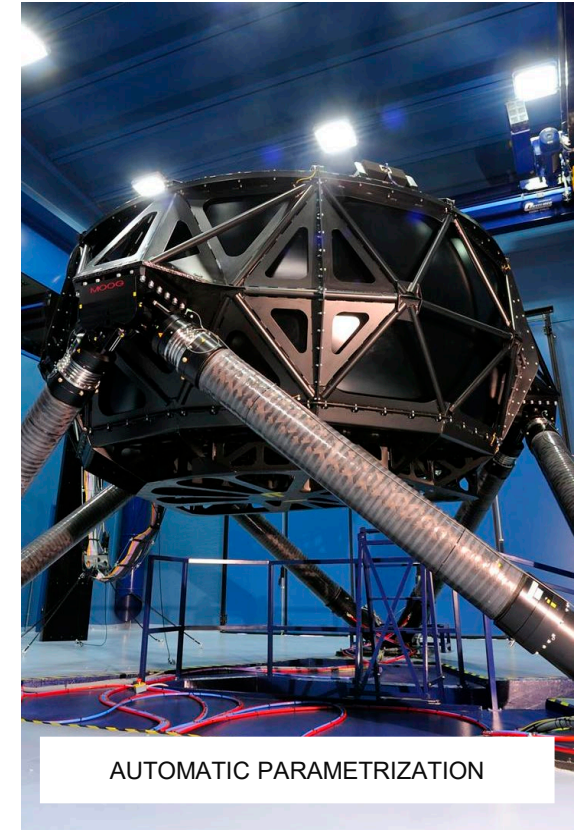
TECHNOLOGY OPEN



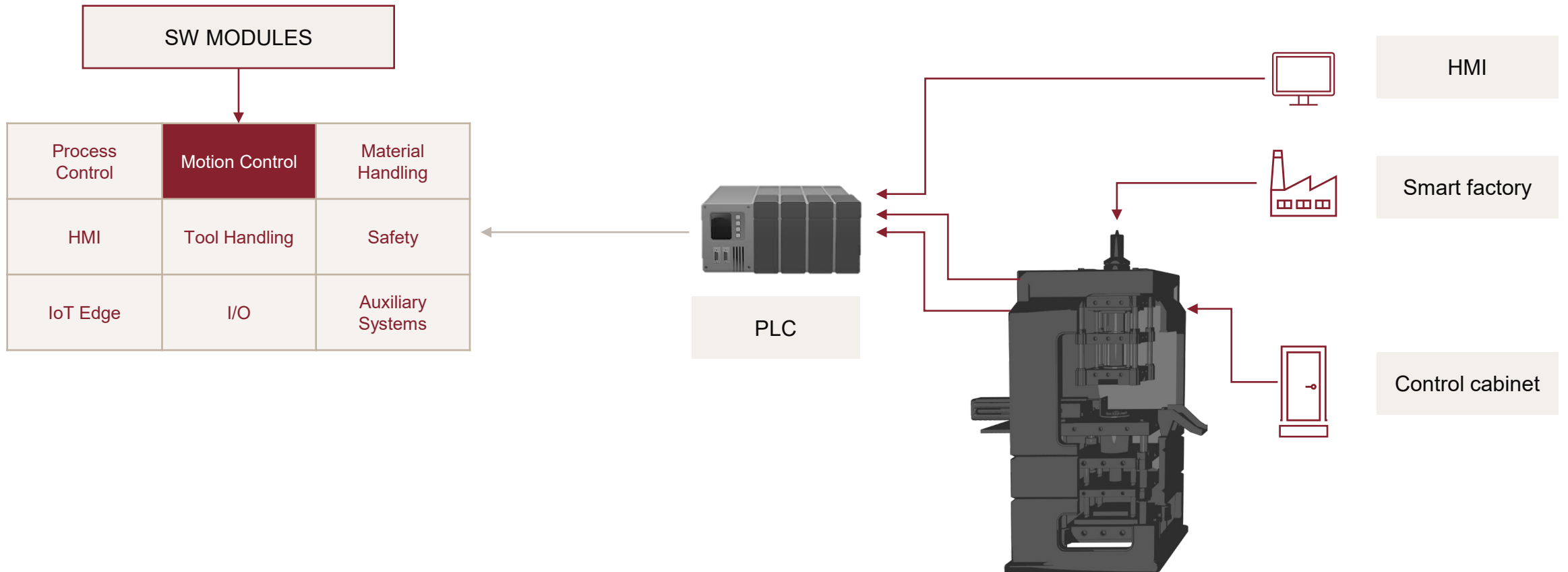
SYNCHRONIZED MOTION

AXIS CONTROL

PLC & DRIVES

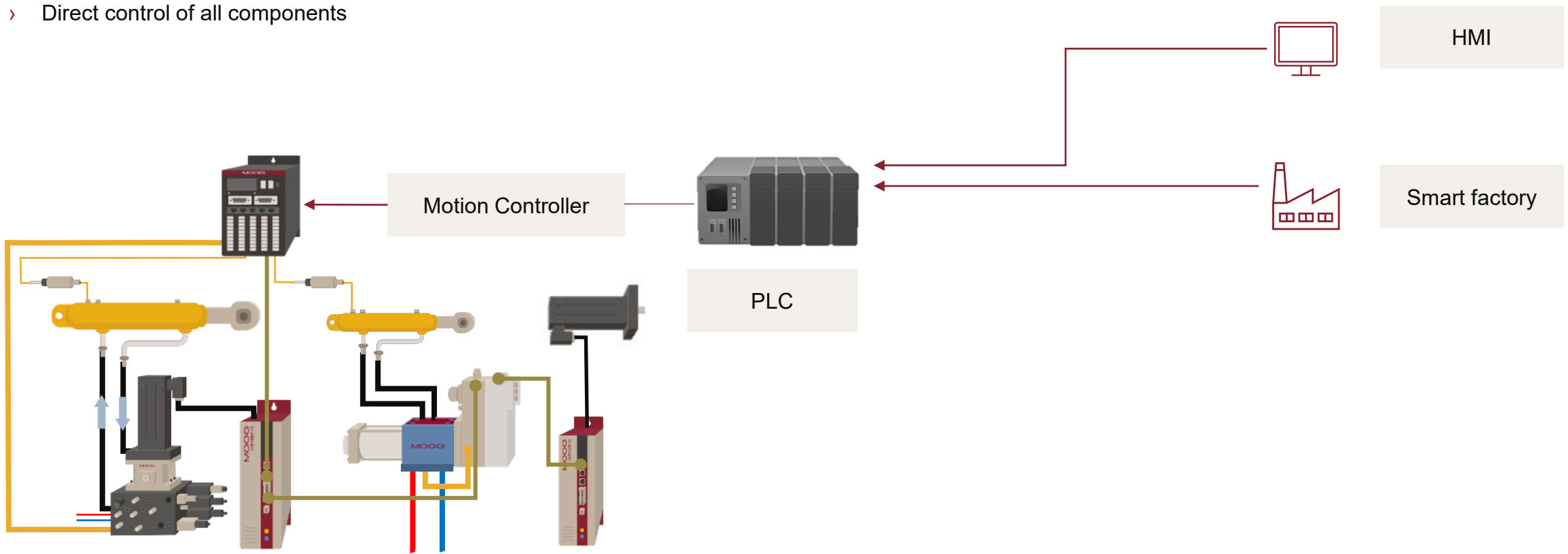


AUTOMATIC PARAMETRIZATION



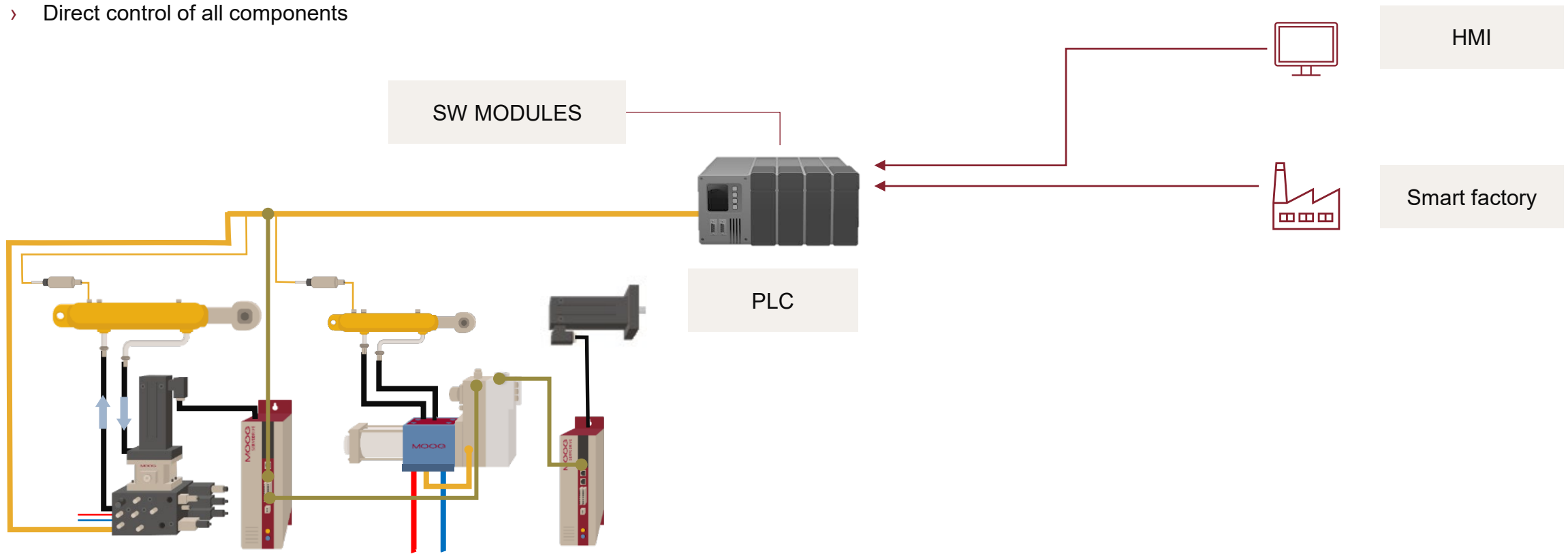
SIMPLE ARCHITECTURE

- › No dedicated Motion Controller needed
- › No Fieldbus dependencies
- › Direct control of all components



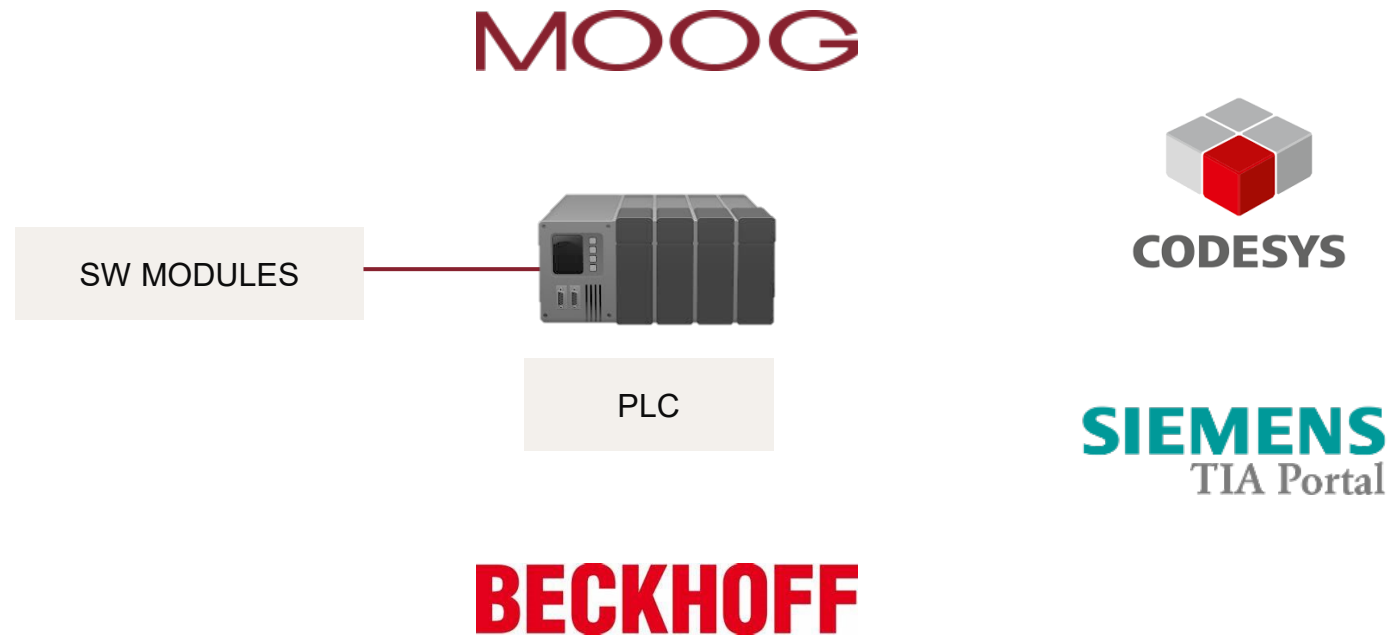
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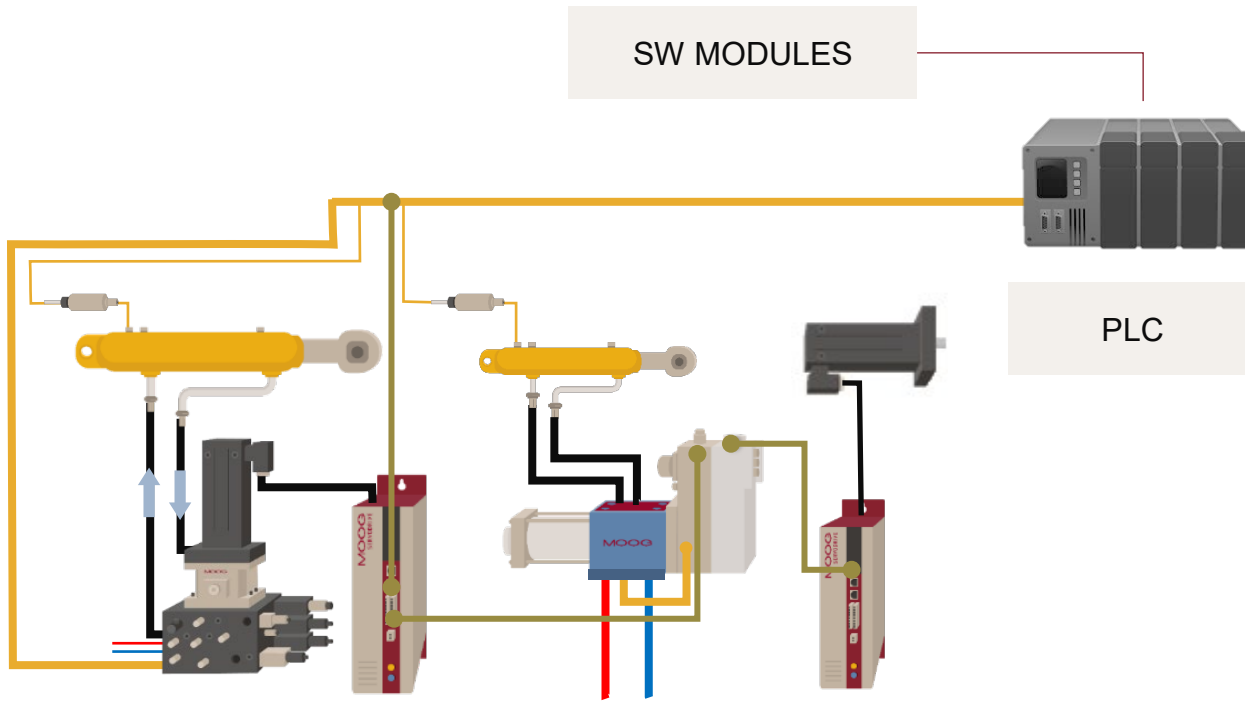
FLEXIBLE CHOICE OF PLC

- › Software Modules for your preferred PLC platform



EASY INTEGRATION INTO MIXED TECHNOLOGIES

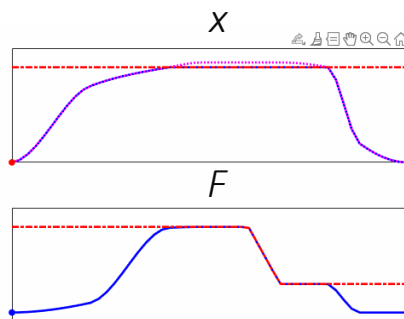
- › Software Modules for every Technology & System Topology



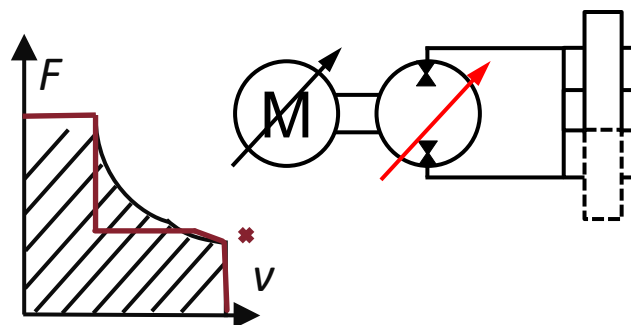
SOFTWARE MODULES TO MEET CHALLENGES

Axis Control (x, F, x/F)

› EPU & Valve



EAS Pump Displacement Control



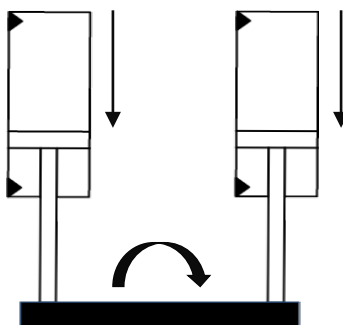
Condition Monitoring

› EPU & Valve

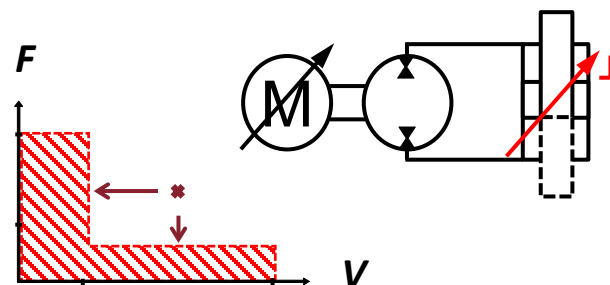


Synchronized Motion

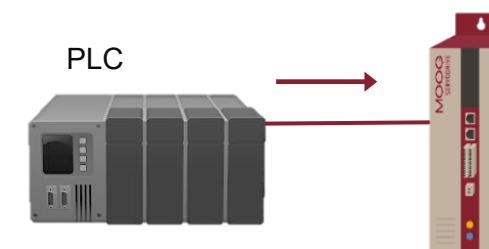
› EPU & Valve



EAS Actuator Manifold Control

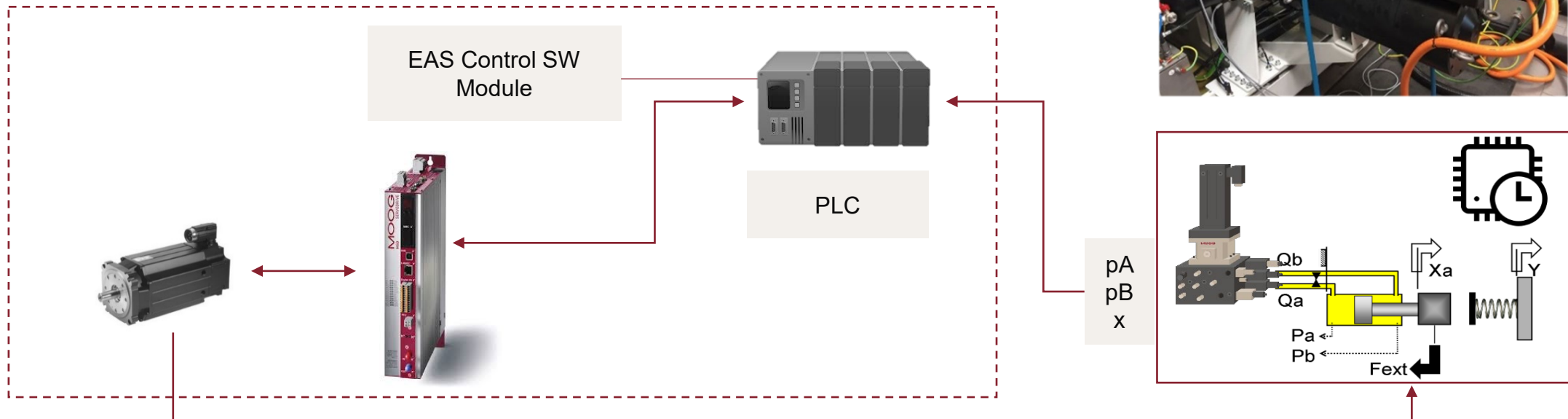


Automatic Parameterization



VIRTUAL COMMISSIONING WITH HIL SIMULATOR

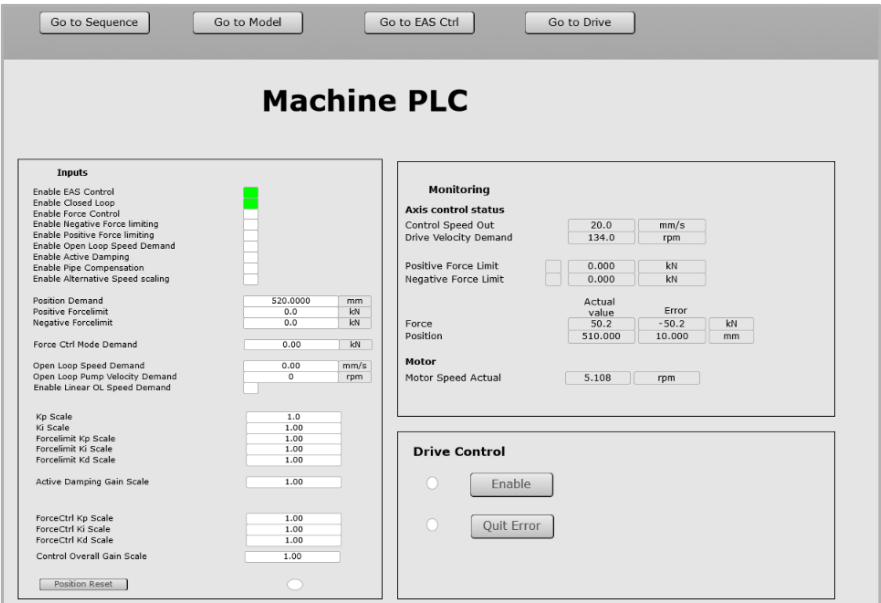
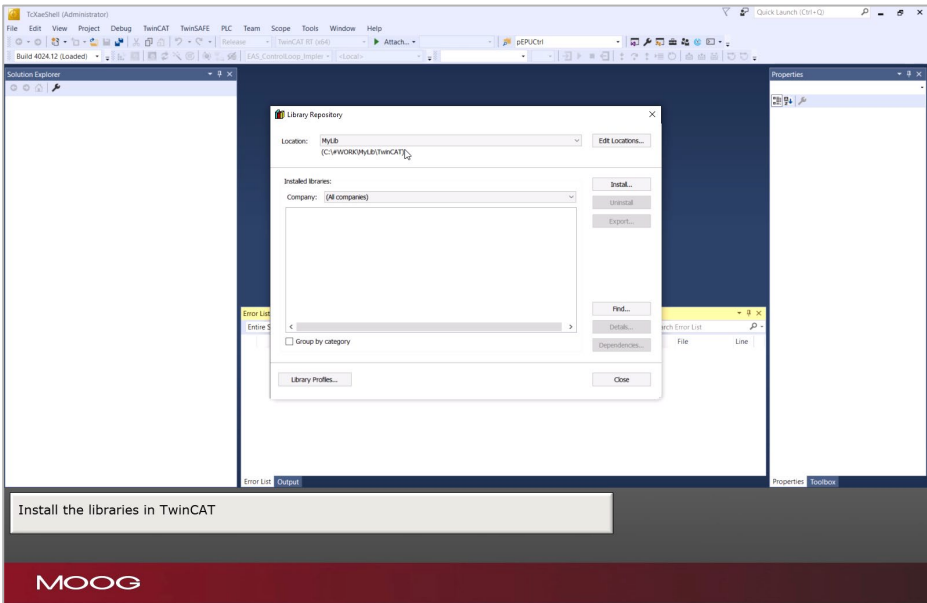
- › Software testing without machine
- › Test & training with real hardware
- › Desk-size suitable even for home-office



Customer PLC commands real servodrive that interfaces with simulated hydraulic axis model with load.

READY TO USE

› Integration of Software Module in Machine PLC



WHAT'S YOUR CHALLENGE?

- › MIXED TECHNOLOGIES?
- › NEW MACHINE GENERATION?
- › SLOW PRODUCT DEVELOPMENT?
- › COMPLEXITY?
- › UNKNOWN INTERFACES?
- › MISSING SW EXPERTISE?