Hand in hand for tomorrow

SCHUNK goes AI

KI Anwendungen bei SCHUNK

Dr. Martin May

Director Innovation

From mechanics to autonomous services

„Maps“

Manual planning and control

„Google Maps“

Automated planning and manual control

„Autonomous Vehicles“

Automated planning and decentralized control

„Autonomous Network“

Automated planning and centralized control

„Mechanic Devices“

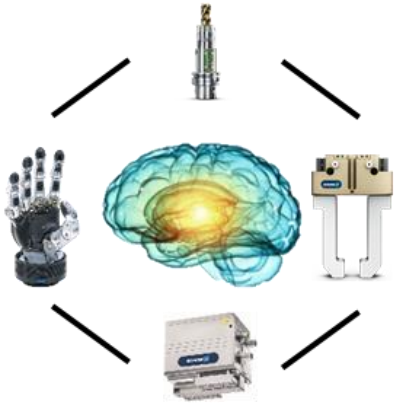
Motion

„Mechatronic Devices“

Motion control

„Connected Intelligent Devices“

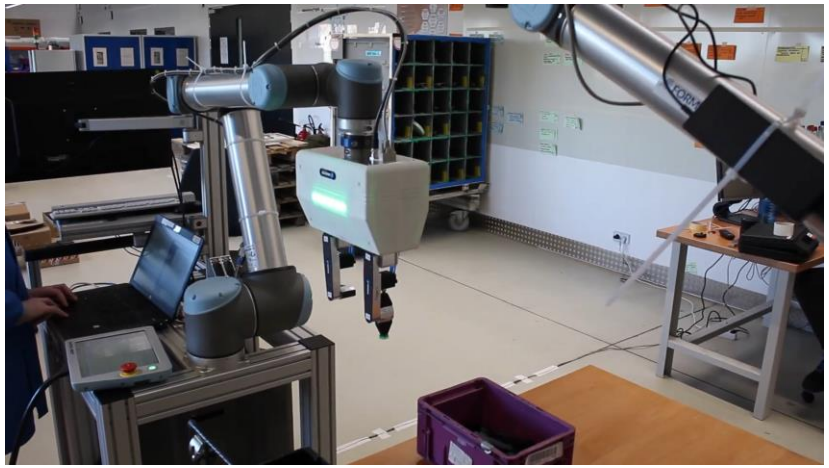
Automated planning and control

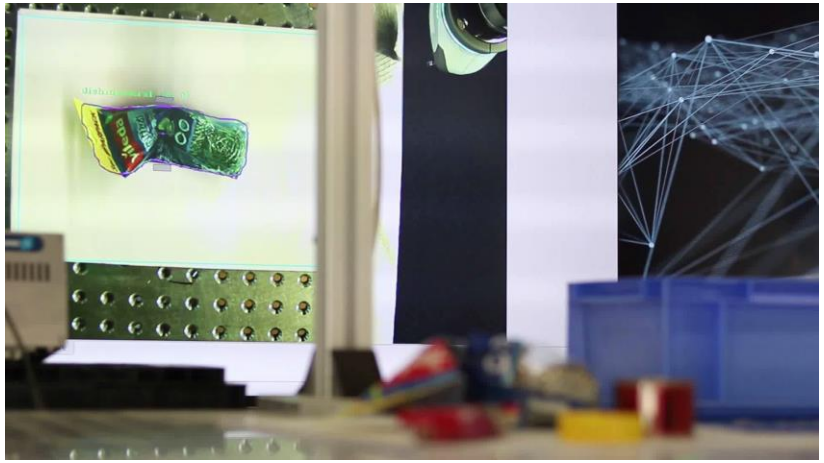


„Autonomous Solutions“

AI-enabled Processes, online-learning

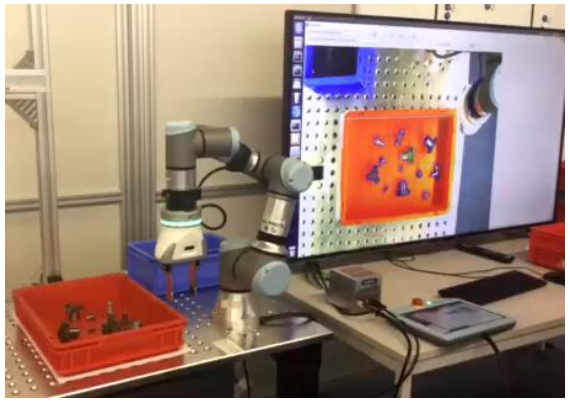
From components to services





One software platform for multiple applications

Assembly



Commissioning

Tooling

Platform for new services

- Cloud Level
- Edge Level
- Physical Devices

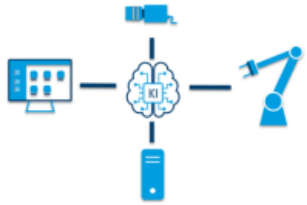
Online Learning

Trend Analysis

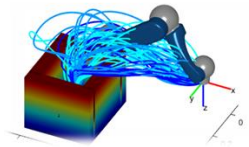
Recommender Systems

Next Big Thing

2D Grasping Kit

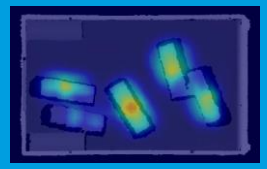


Grasp planner



Quality inspection

3D bin picking



Next Big Thing

?

Digital Products and Services

Start tomorrow‘s Engineering with SCHUNK


SCHUNK Shop

Chuck jaw quickfinder


Toolholder quickfinder

ePLAN

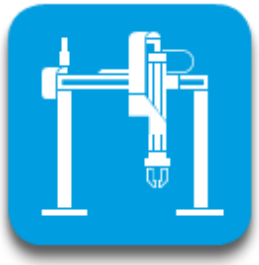

CADENAS

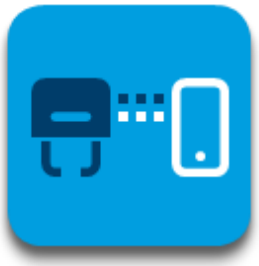

Online design and calculation tool


Digital Twin


Online commissioning assistant

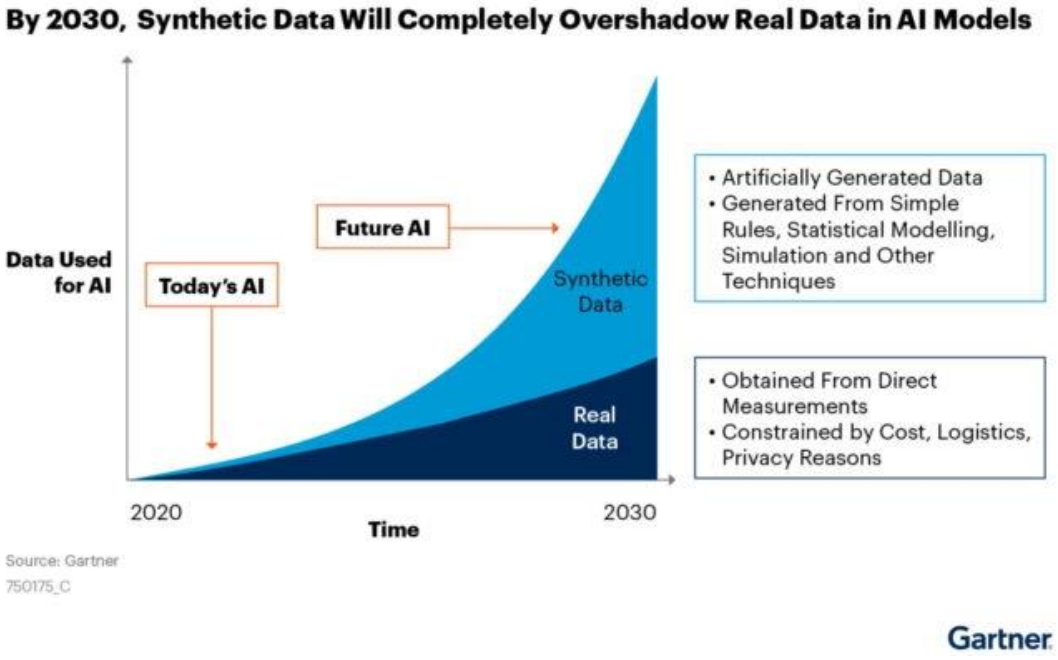

PLC function module

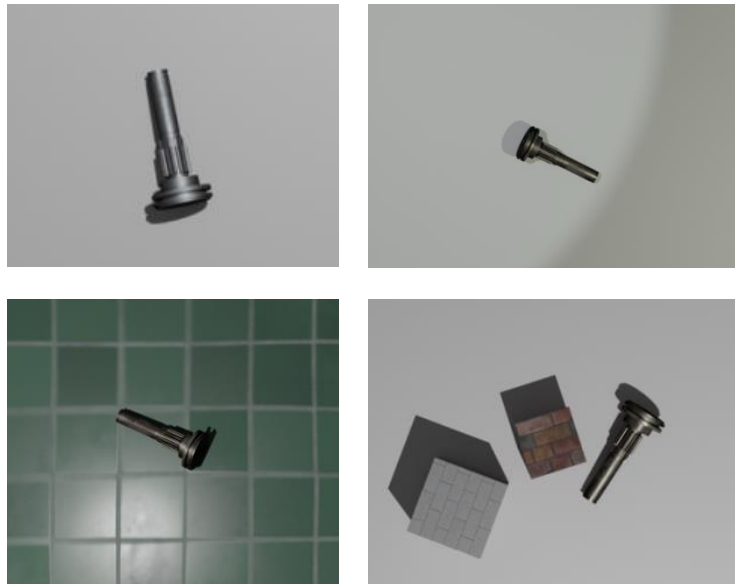

Auto-learn function


GripConnect

The next Service ?

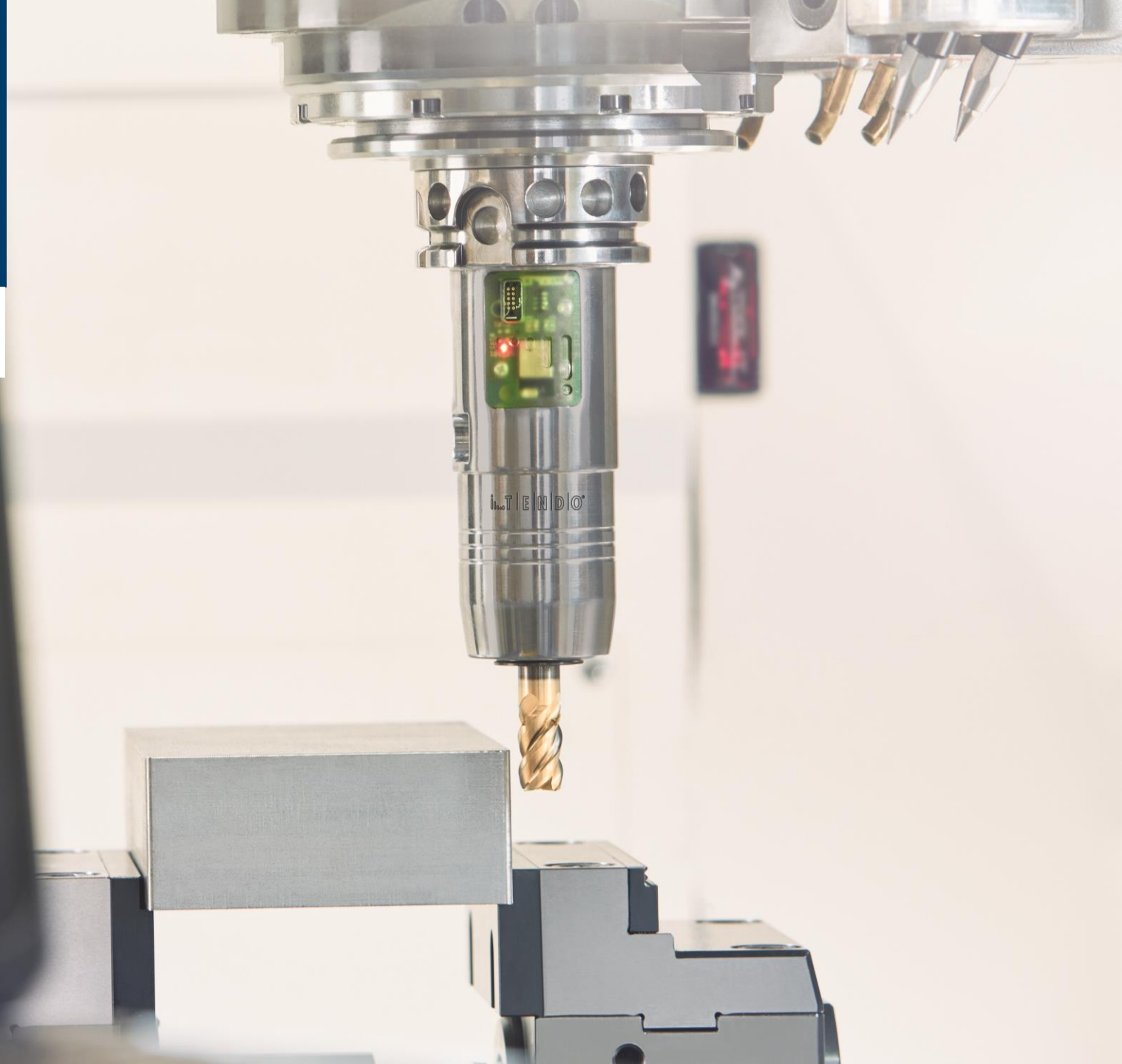
The next AI challenge ?





Autonomous Cutting

- Integrated accelerometer
- Detect vibrations closest to the part
- Enable autonomous cutting and milling



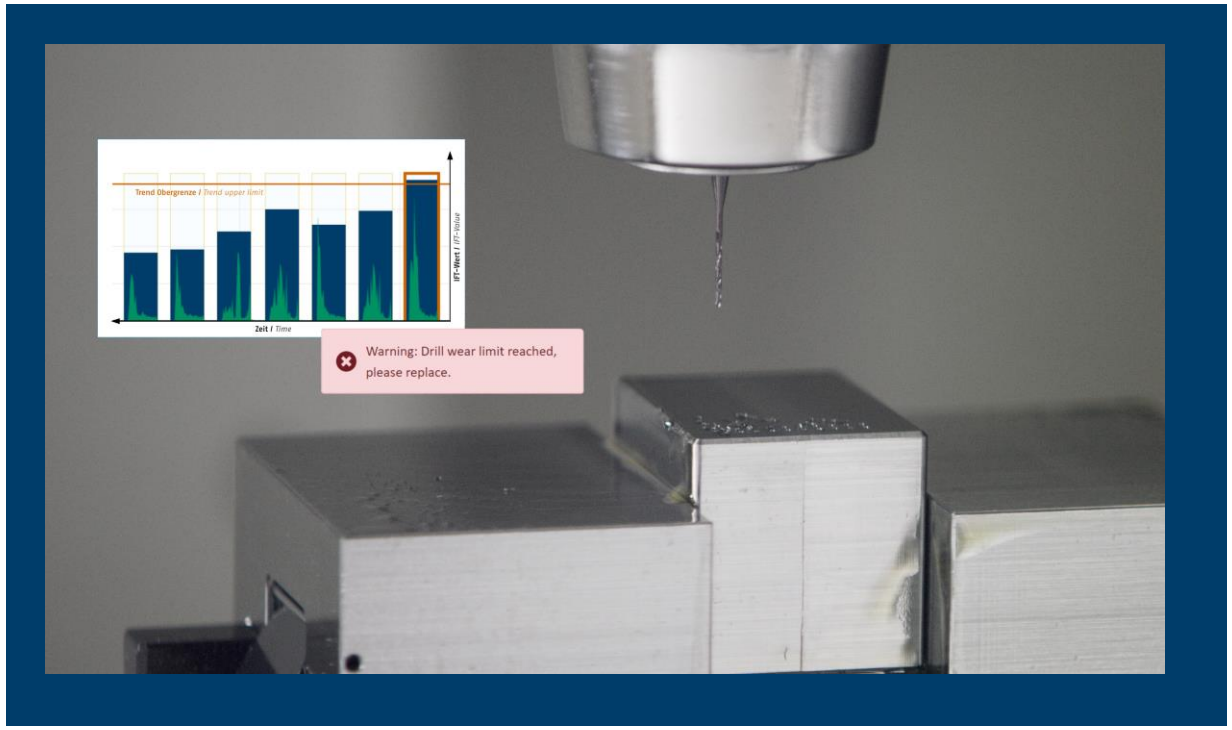
Predicting wear in drilling processes

- Wear monitoring of small tools is very difficult
- Requires manual tests with external tools

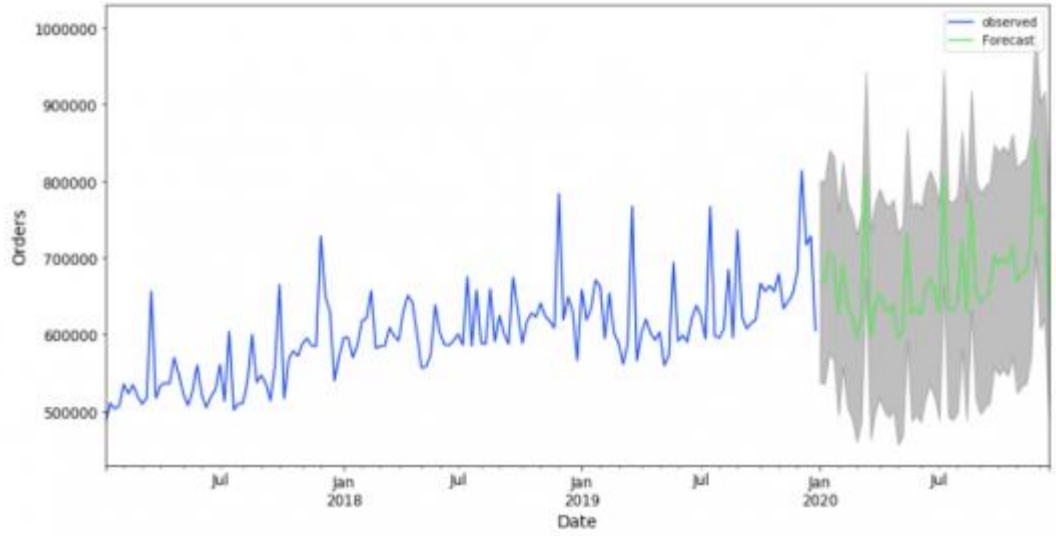
→ Case for predictive maintenance

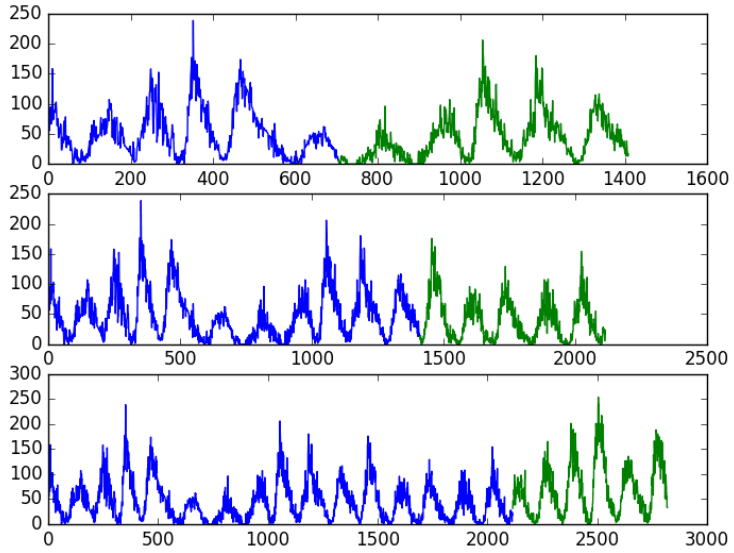
→ Extend service life

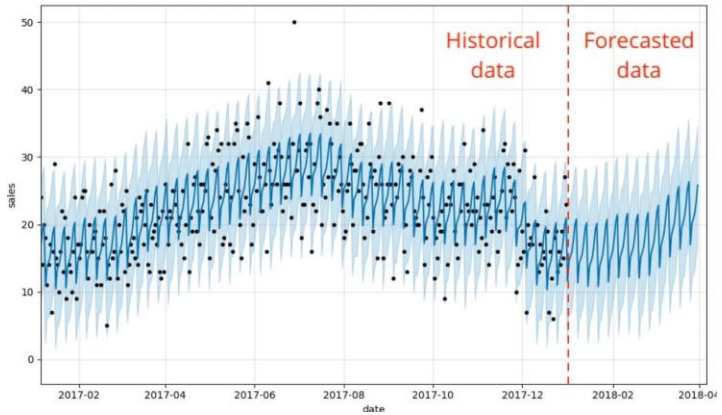
→ Exchange tools before they break



Time Series Analysis

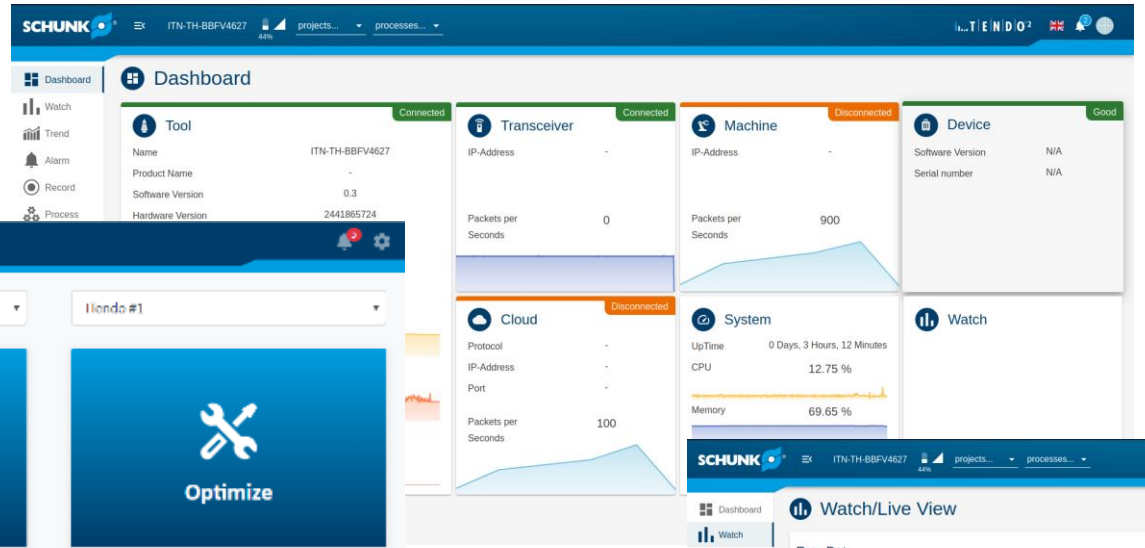


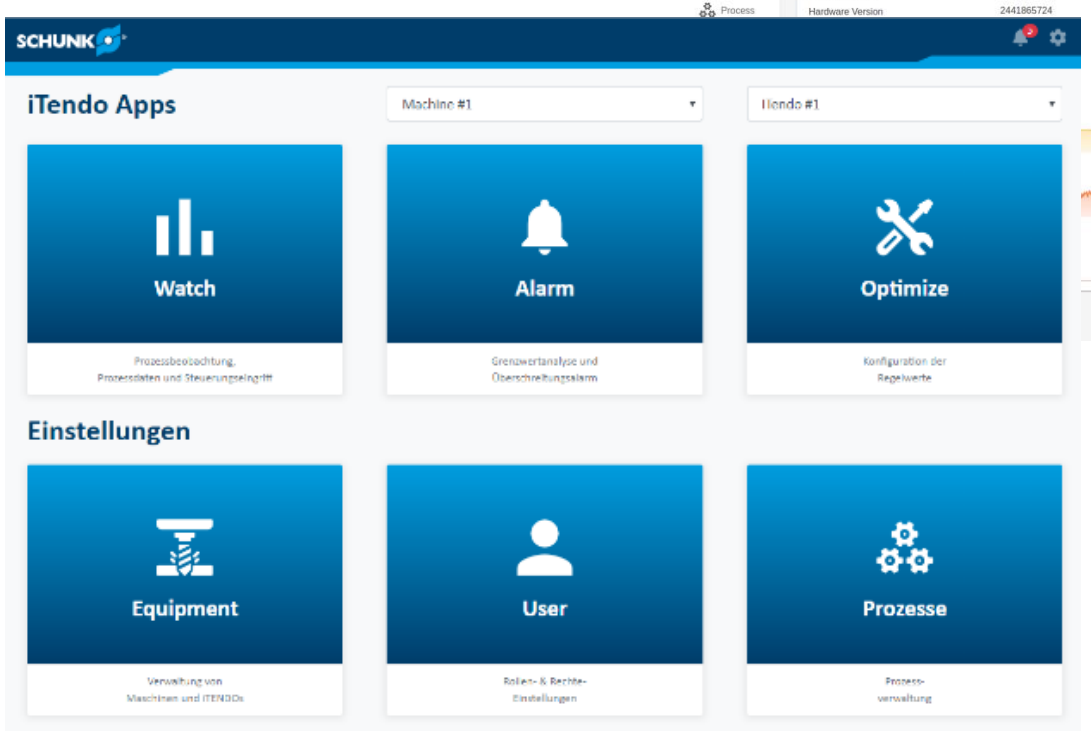


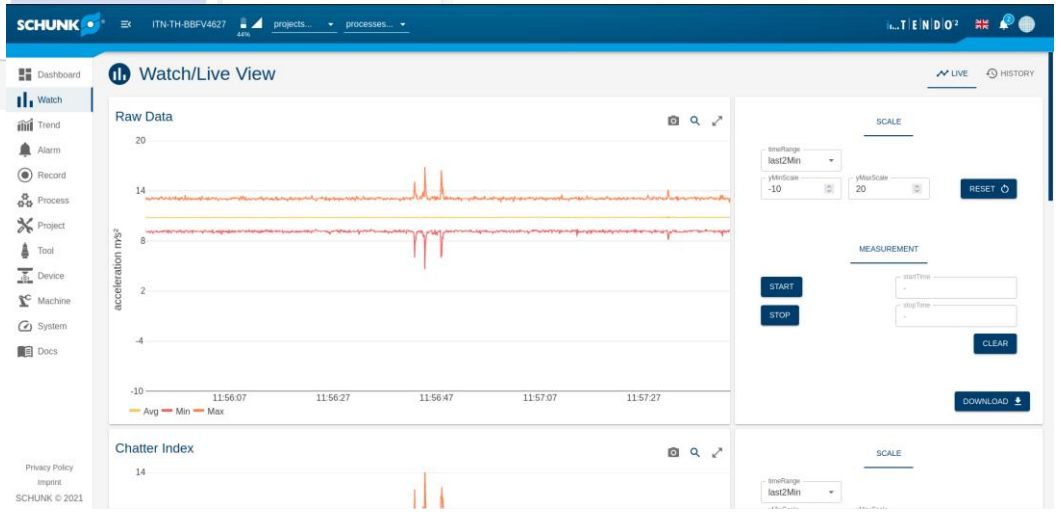


- Advanced Monitoring
- Predicting wear

AppStore for iTENDO







Follow up?

Please contact us

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