Collaborative Tool Data Management

Transparent, efficient and cost effective.

c·Com

Rainey MAPAL Showcase Industry 4.0 enabling Tool Management Software with AI powered tool wear indicator

Matti Maier
Digital Manufacturing Week
November 13, 2020

Who are we?

RAINEY ENGINEERING SOLUTIONS
(Northern Ireland)

c-Com
(Germany)

David Tinney
Sales & Applications Engineer
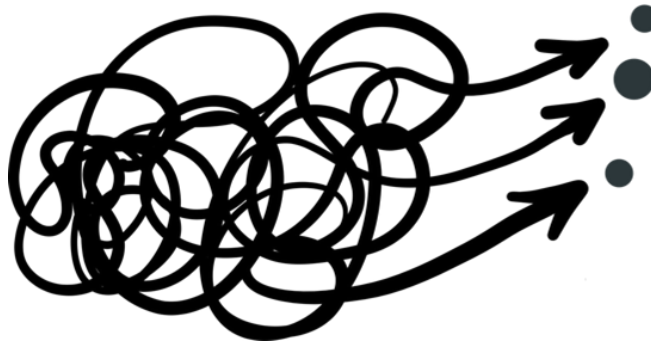
Matti Maier
IT Manager

Challenges

COST PRESSURE

- Transformation (e.g. Automotive)
- Economy (e.g. Corona)
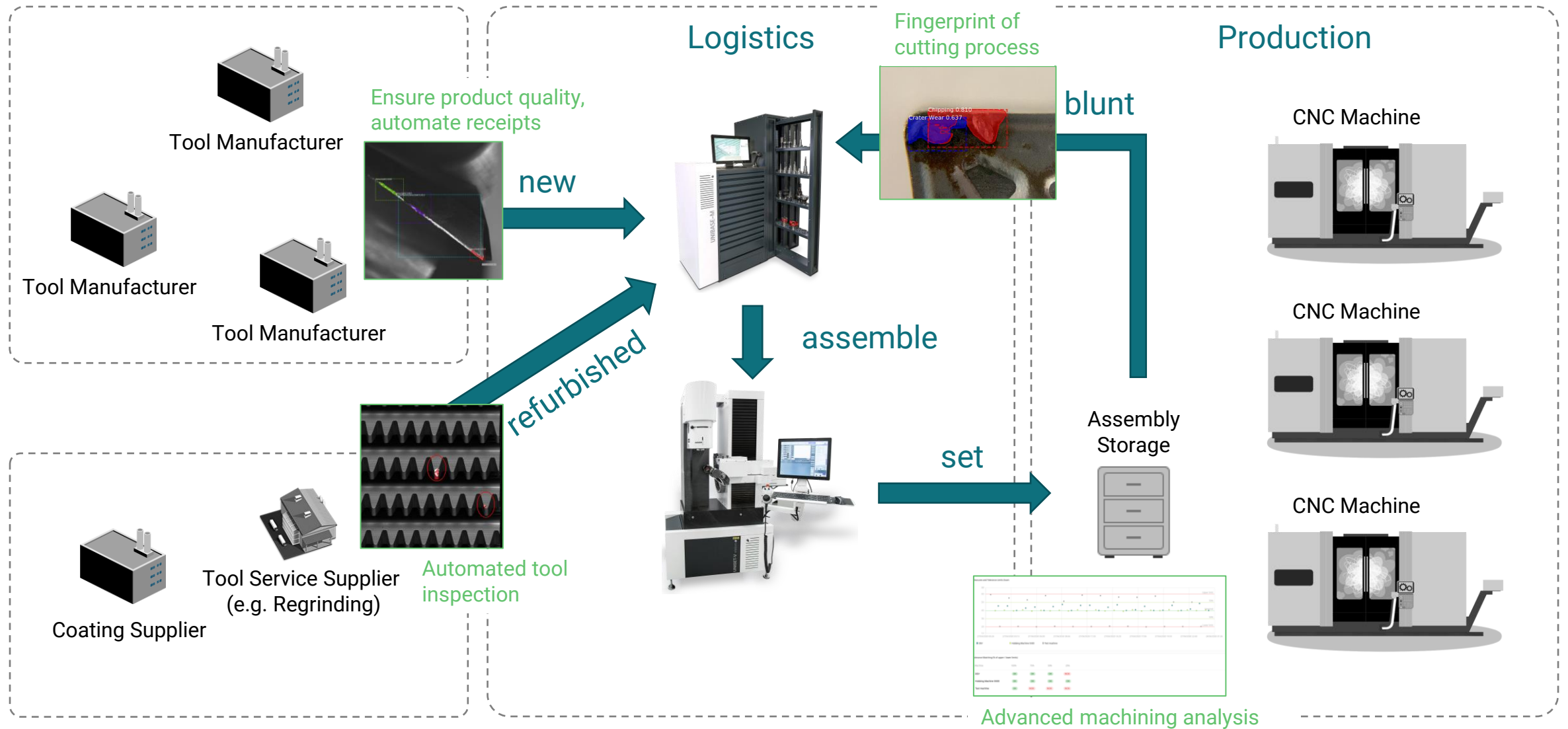- Competition

PROCESS INEFFICIENCY

- Non-standardized processes
- Excel or paper-based workflows
- Hidden stocks and manual mgmt.

COMPLEXITY

- High complexity requires specialization
- Manual supply chain integration
- Missing transparency leads to increasing stafety stocks
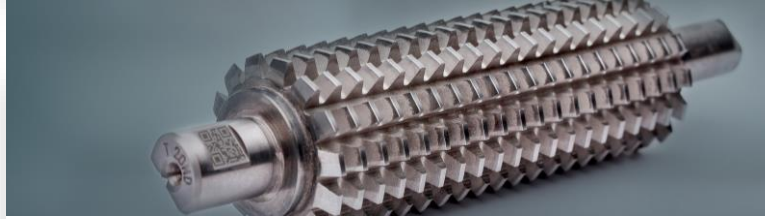
AI in the Tooling Process

Tool Manufacturer

Tool Manufacturer

Tool Manufacturer

Coating Supplier

Tool Service Supplier (e.g. Regrinding)

Ensure product quality, automate receipts

Automated tool inspection

Logistics

Fingerprint of cutting process

Production

blunt

new

refurbished

assemble

set

Assembly Storage

CNC Machine

CNC Machine

CNC Machine

Advanced machining analysis

c-Com Solutions

Digital Tool Management

- ⊕ Transparency on stock
- ⊕ Transparency on application
- ⊕ Transparency on performance
- ⊕ Common data basis
- ⊕ Collaborative features

Tool Tracing

- ⊕ High transparency on tools
- ⊕ Reduced efforts for management
- ⊕ Optimization of tool performance
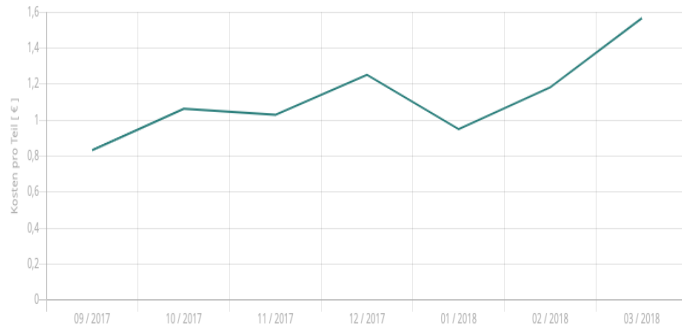- ⊕ Regrinding and coating process
- ⊕ Optimized planning

Intelligent Machining and Tooling

- ⊕ Quality optimization with advanced analytical capabilities
- ⊕ Optimize tool application with recommendations for the operator
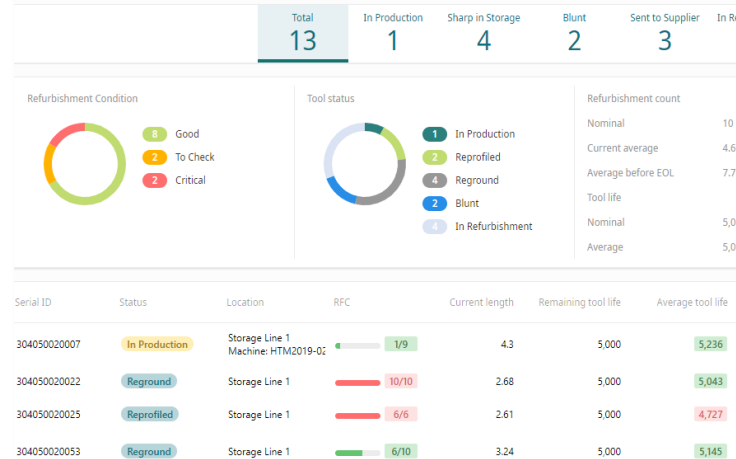- ⊕ Increase OEE
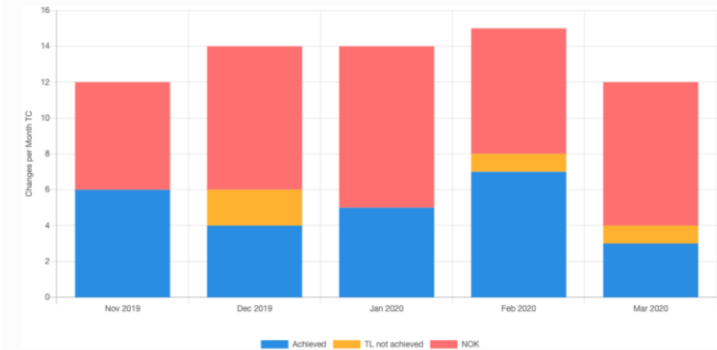
Summary

COST SAVINGS

- Higher productivity, e.g. by stretching tool life

- Reduced manual effort for tool management

- IT, AI and tooling competence combined for fast project delivery

PROCESS EFFICIENCY

- Digital processes across the supply chain

- Improved data quality and less input

- Automation of steps using AI

TRANSPARENCY

- Visualization of stock levels and consumption

- Notifications for abnormal (number of) tool changes

- Tracing of individual tools

c-Com

c-Com GmbH
Heinkelstr. 11, 73431 Aalen

Matti Maier
Tel. +49 7361 829949-2
Matti.Maier@c-com.net