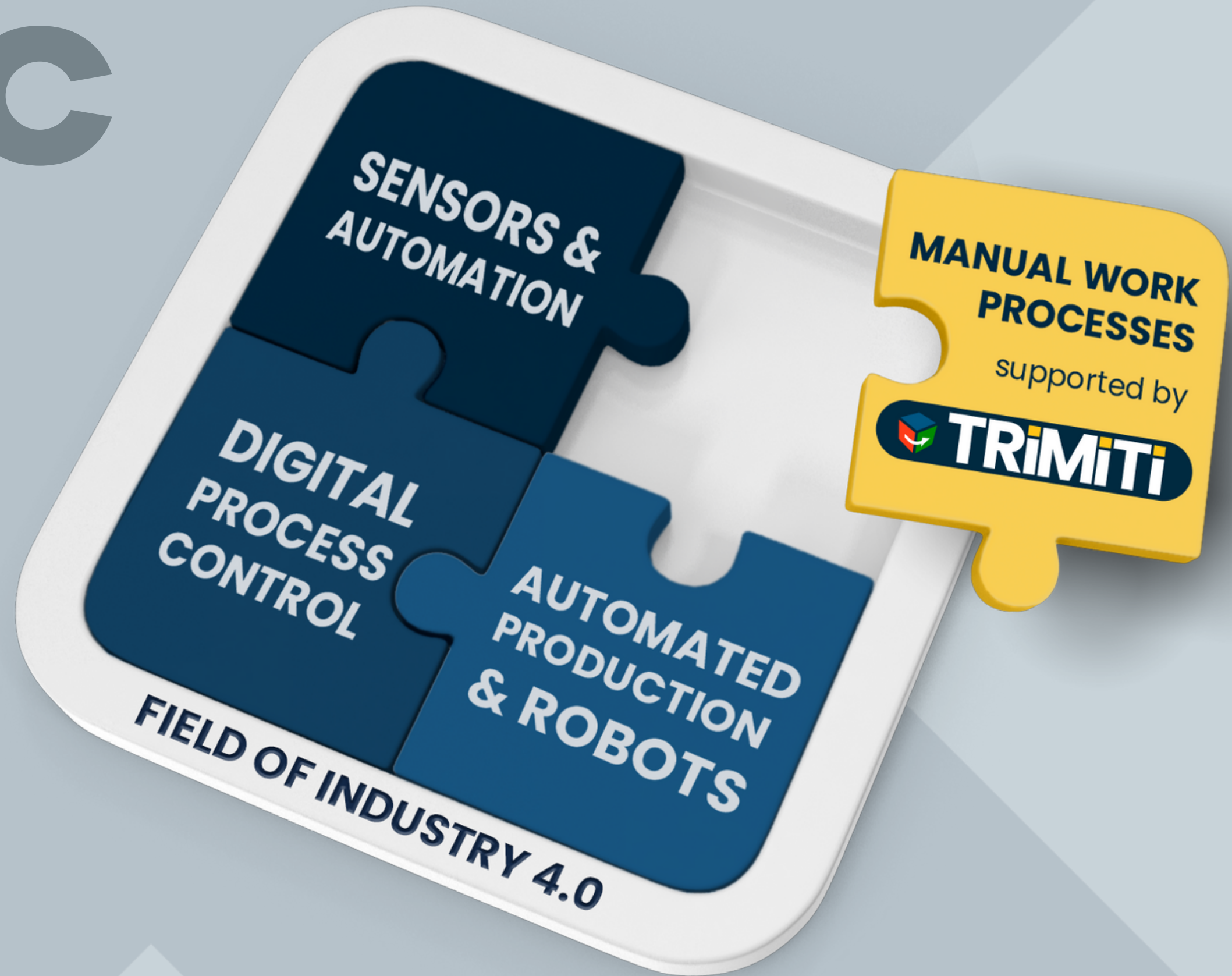


NEXUSTEC

MANUAL WORK
complies with
INDUSTRY 4.0 paradigms



EXECUTIVE SUMMARY

72% of tasks in the factory done by humans! (A.T.Kearney)

Nexustec software brings manual work into iiot/Industry4.0!

Ai-based technology guarantees:

- **Cost Savings = fast ROI**
- **Process Control = Zero Defects**
- **Reliable Digitization = iiot Solution**

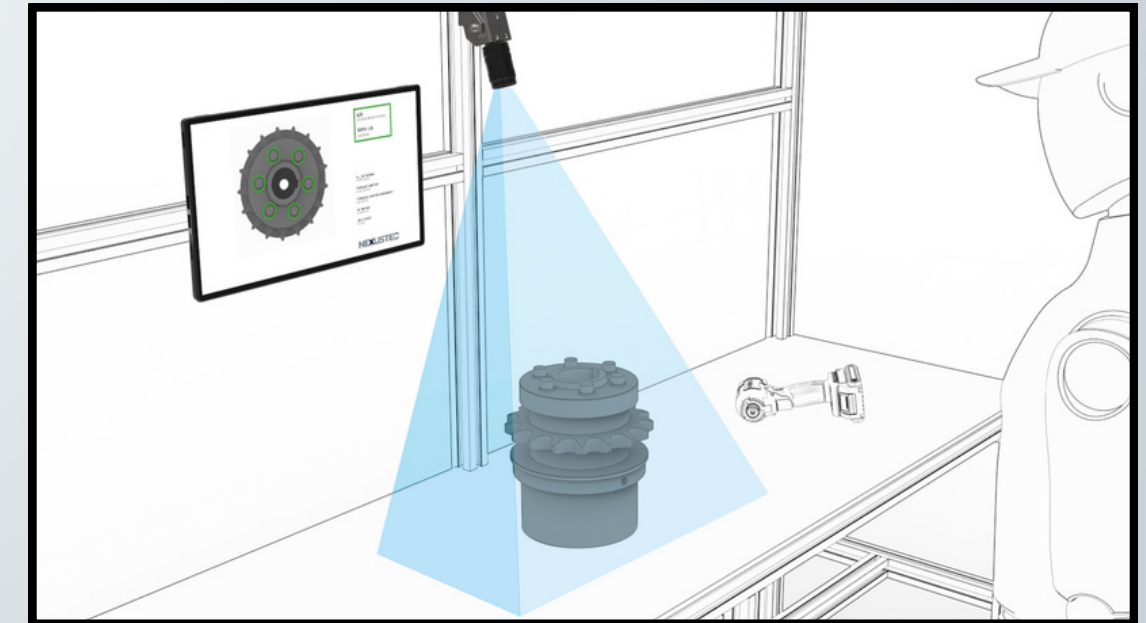
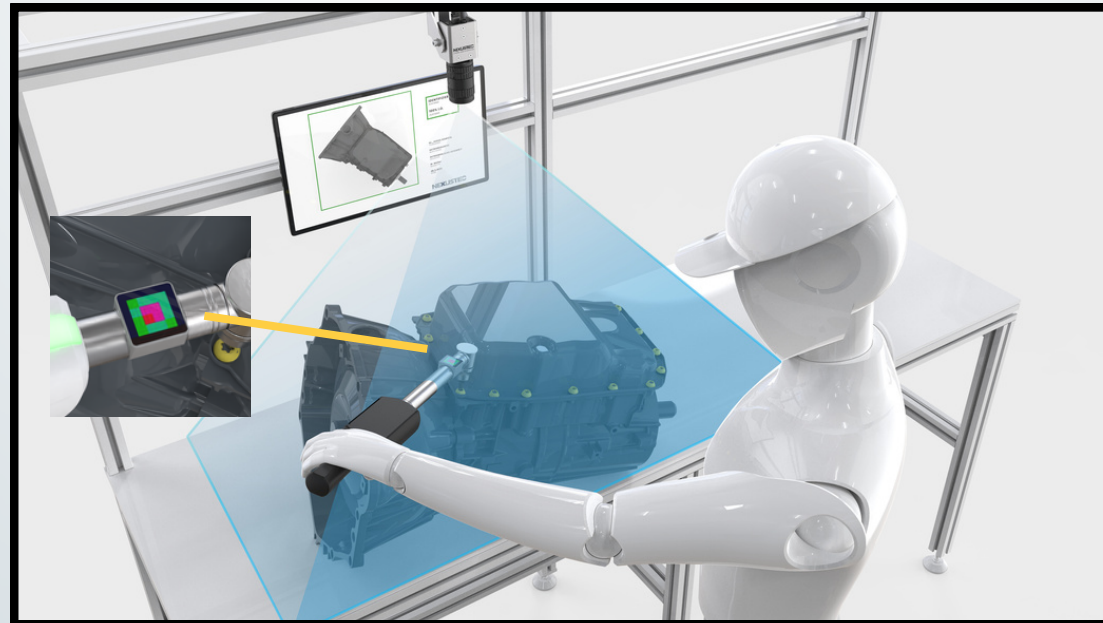
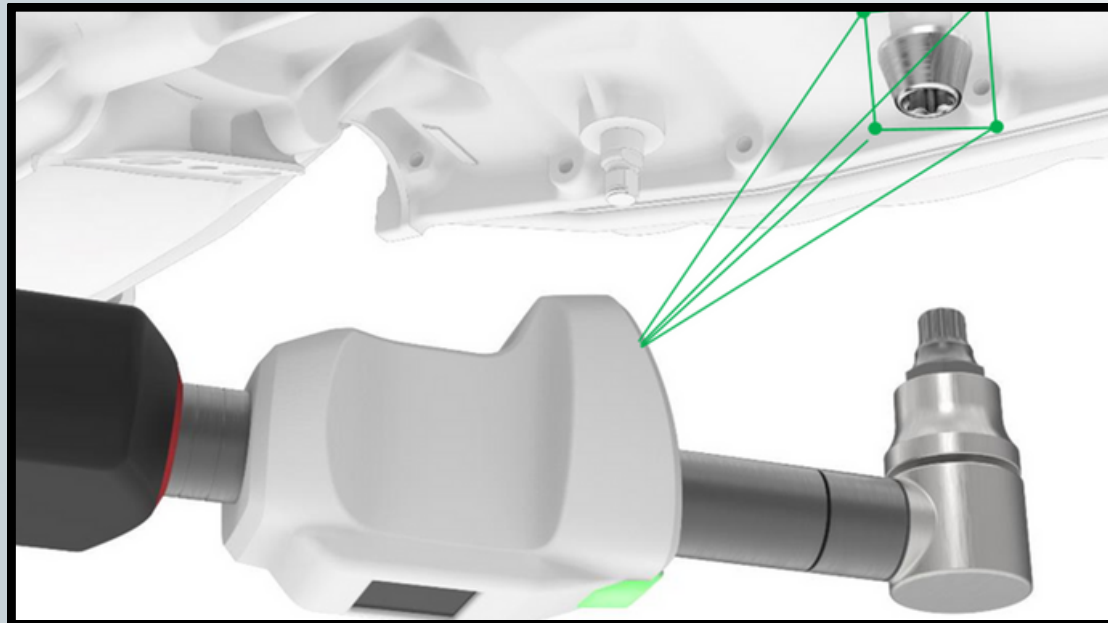
(100% First-time-right, added value, in-line-quality-control, better assurance, data generation, ERP+MES, scrap reduction)



OUR VALUE PROPOSITION

- **Digitizing tool** for **manual processes** in all fields of industrial manufacturing
- **Manual work** becomes part of **iiot/industry 4.0**
- **A.T.Kearney Survey:** **The human touch:** still crucial in **manufacturing**
- **72% of tasks** in the factory are performed **by humans**

Statement:
Human centric automation –
Combination of the best of two worlds















WHO ARE WE, WHAT'S OUR CAPABILITY?

Strong know-how for product development in:

- software development
- vision technology
- industrial production

Team is located in Munich

Projects with companies from Automotive, Machine Building and Medtech industry:

						
blanked trailer producer			blanked medtech company			

OUR SOFTWARE

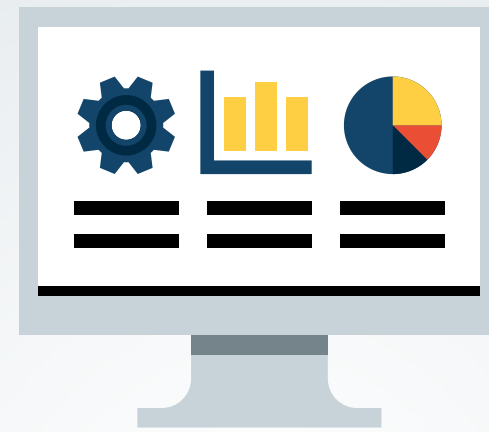


IN PRINCIPLE

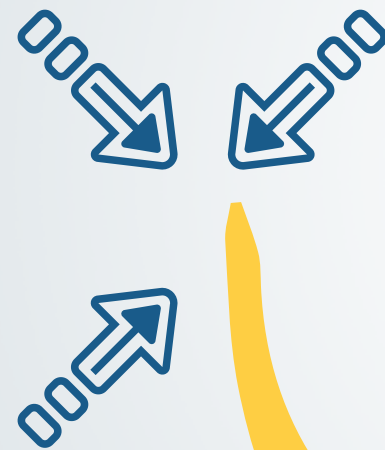
STRENGTHS of



**Process Control of
Production Flows**



Data Generation



**Interfaces with
every device**

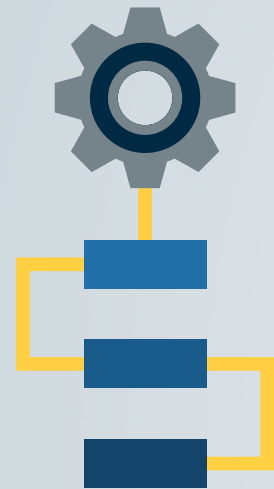
BASE FOR IIoT (Industrial Internet of Things)

- Smart Manufacturing
- Process optimization
- Smart Supply Chain
- Traceability
- Blockchain



PROCESS CONTROL in YOUR PRODUCTION

Strength 1:
Inline-Quality-& Process-Control
= Zero Defects



- **Detection of correct assembly work flow**



- **Avoiding of any failures**



- **Check of manual work**



- **Guided training on the product**

Zero Defects:

no scrap, no faulty production, no rework, no follow-up inspection, ...

TRIMITI as CONNECTED PRODUCTIVE SYSTEM

SETUP of TRIMITI

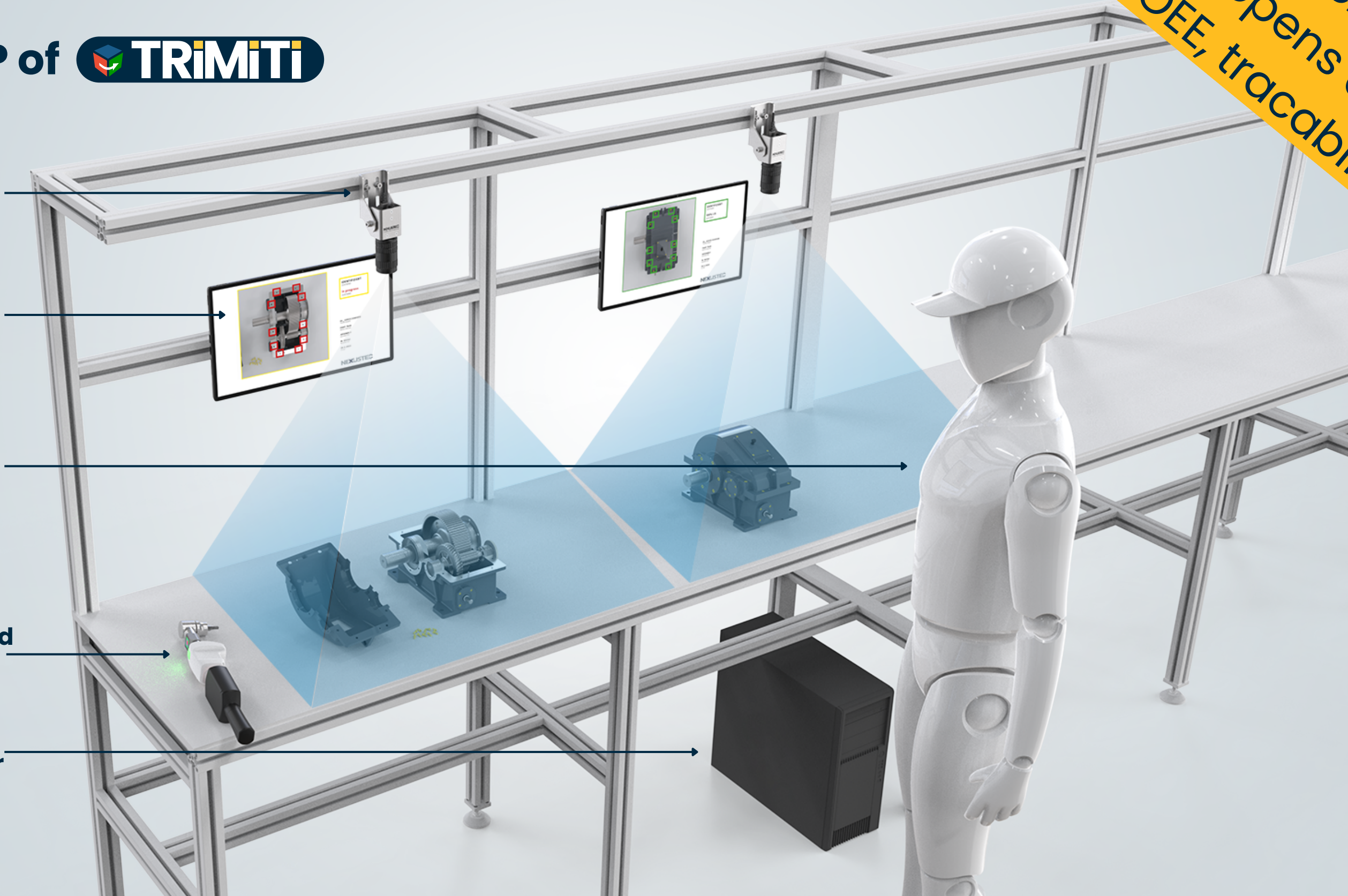
Camera

Screen

Worker

Connected
Tools

Industrial
Computer

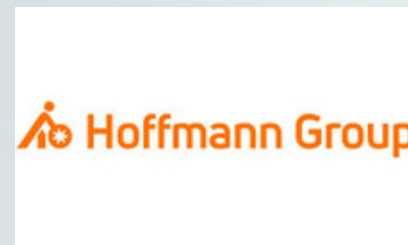


Strength 2:
One key opens all the doors -
quality, OEE, tracability, no rework

INTEGRATED SYSTEMS and CONNECTIVITY

your equipment
Only 1 new software -
Strength 3:
remains the same

Production Tools



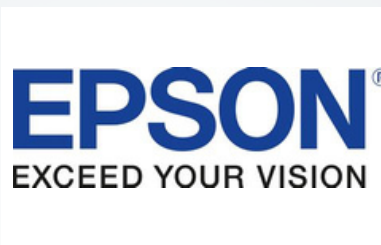
Cameras



Cameras



AR-Glasses



Scanners + Projectors



Systems + Control Units



Bluetooth



WiFi



RS232



Ethernet



USB





OUR PRODUCTS

TRIMiTi APPLICATIONS & PROJECT EXAMPLES

INLINE QUALITY CHECK

END-OF-LINE QUALITY CHECK



ASSEMBLY ASSISTANT



SCREW FASTENING ASSISTANT



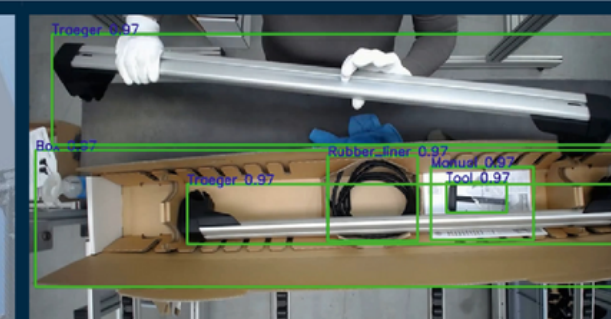
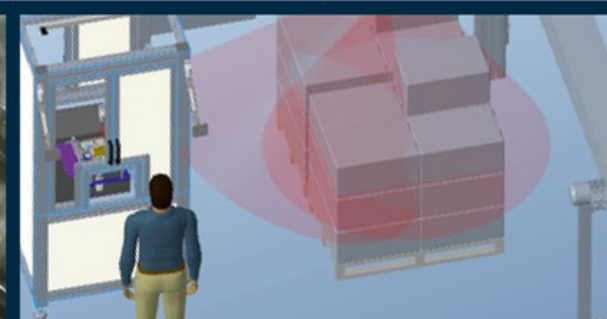
AUTOMATED OPTICAL INSPECTION (AOI)



PACKAGE CONTENT CONTROL



PACKAGE TRACKING

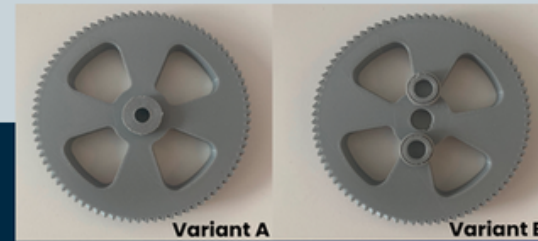




FEATURE EXAMPLES



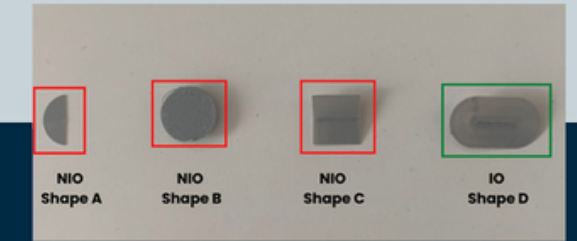
BARCODE/LABEL CHECK



VARIANT DETECTION CHECK



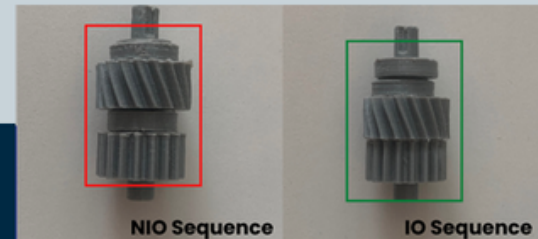
COLOR DETECTION CHECK



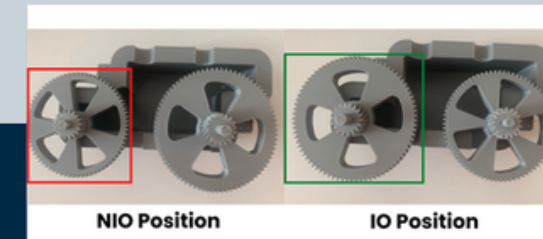
SHAPE DETECTION CHECK



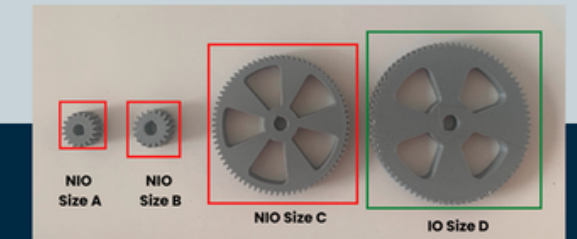
TEXTURE DETECTION CHECK



SEQUENCE DETECTION CHECK



POSITION DETECTION CHECK



SIZE DETECTION CHECK

TRiMiTi

CUSTOMER PRODUCTS

Software characteristics

- **Software** meets particular **customer needs**
- **Very flexible configurability**
- **Modular setup** allows **customized applications**
- Deployed versions **easily to be updated** with latest features

PRODUCTS		INLINE QUALITY CHECK			END-OF-LINE QUALITY CHECK	
		ASSEMBLY ASSISTANT	SCREW FASTENING ASSISTANT	AUTOMATED OPTICAL INSPECTION (AOI)	PACKAGE CONTENT CONTROL	PACKAGE TRACKING
FEATURES	Color check					
	Shape check					
	Size check					
	Position check					
	Variant check					
	Tool calibration check					
	Screw fastening position check					
	Sequence check					
	Tool verification					
	Smart tool integration					
	Tool un-/lock function					
	Barcode / Label check					
AI TECHNOLOGIES USED	MACHINE LEARNING					
	DEEP LEARNING					
	DATA ANALYTICS					
	MACHINE VISION					



SENSITIVE DATA AND GDPR



- **Data** is stored on an **industrial computer** at **customer side** ✓
- Software ensures **personal data protection** & **no data storage needed** ✓
- **Focus** on **production flows**, **employees** are **out of scope** ✓

THANK YOU!

NEXUSTEC

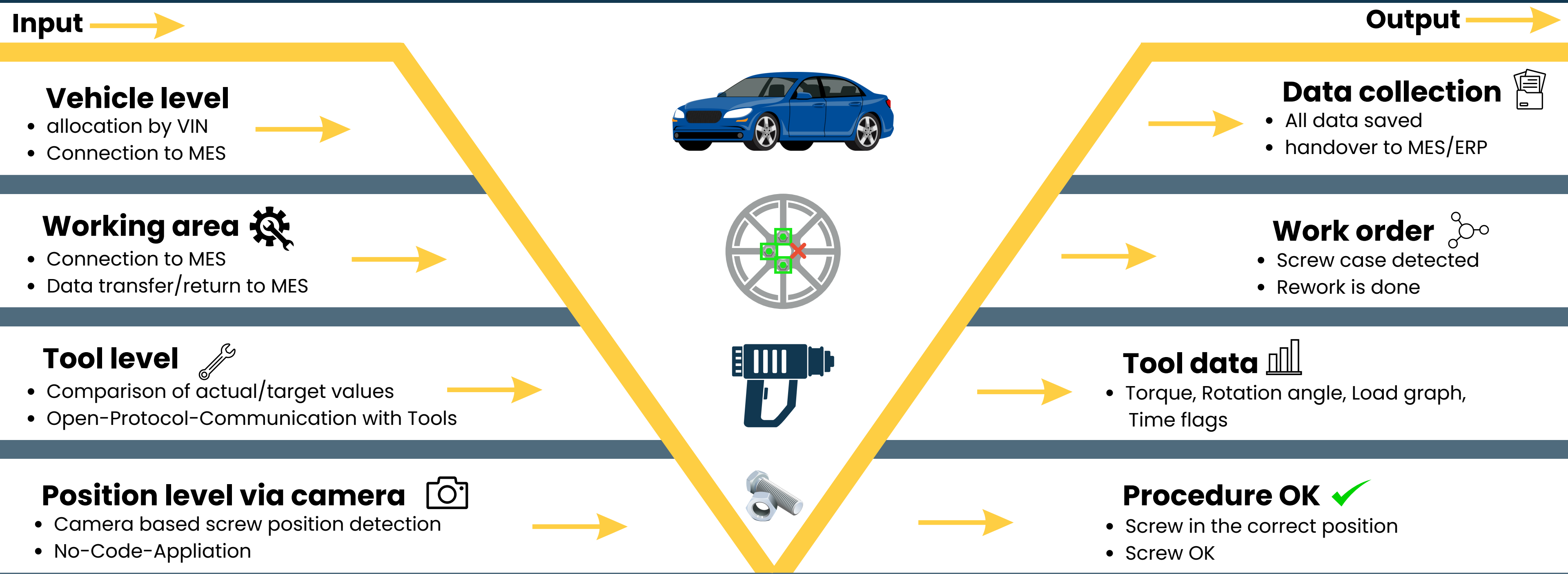


SALES@NEXUSTEC.EU

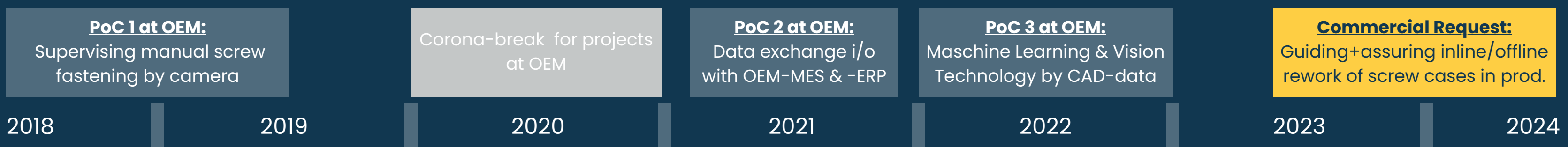
APPENDIX

NEXUSTEC

TRiMiTi as a typical dataflow for inline/offline rework: Data generation and handling across all levels of production



Timeline automotive projects at OEM



Market Overview and Potential

No-code-user-application of TRiMiTi enables Nexustec to focus on scaling options :

At Nexustec, we are aiming to bridge the gap between manual work and Industry 4.0.

According to a survey conducted by A.T. Kearney, it is estimated that:

- 72% of the tasks in industrial manufacturing are still manual or semi-automated
- The value addition done by human activities is 3x higher than that of robotic / automated activities
- This sector is largely ignored due to its complexity for digitization, companies in Robotic sector have 45+ Billion dollars in revenue, and that represents mere 28% of the actions in manufacturing
- Nexustec has a comprehensive technology suite is our playing field.