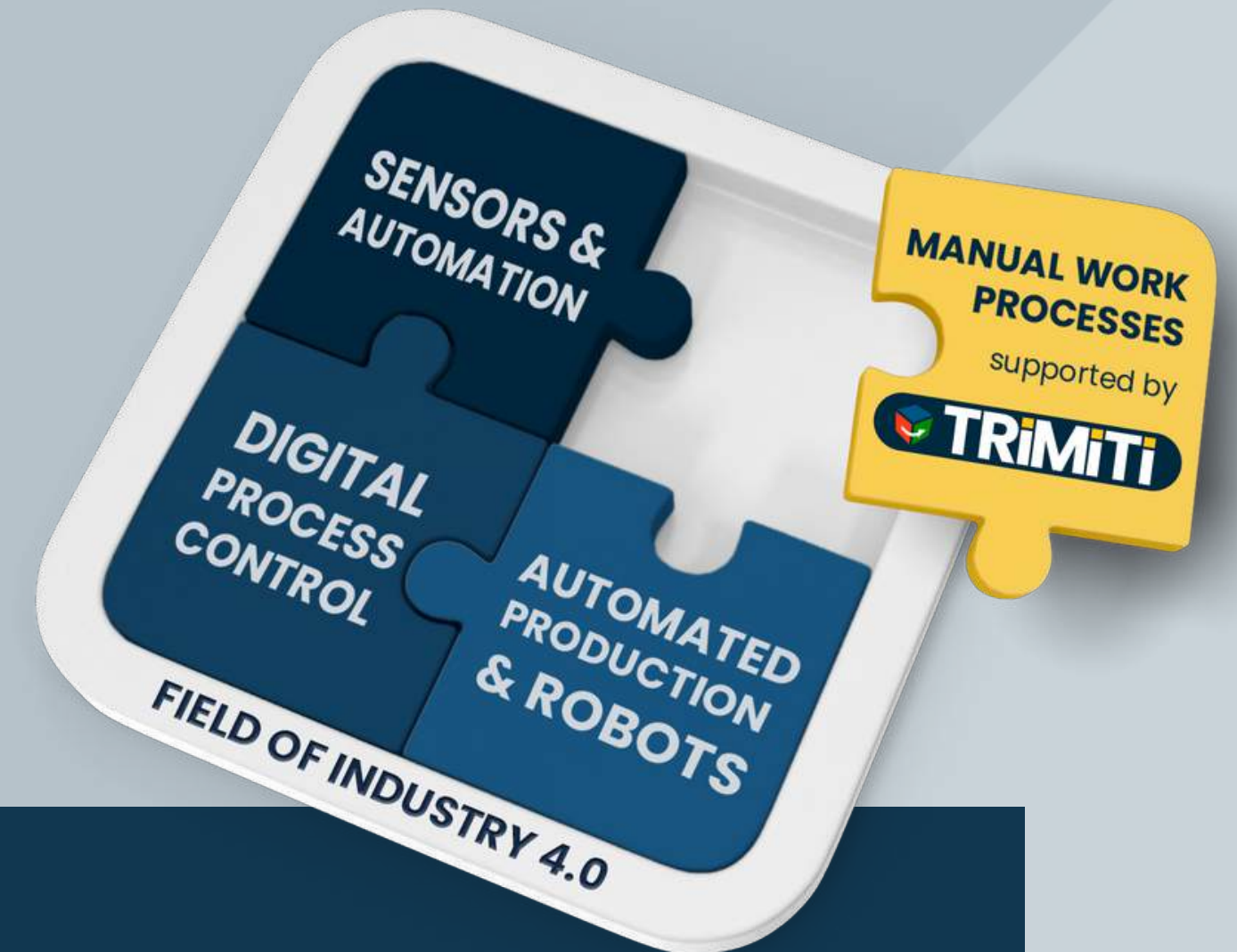




CAMERA- & AI-SOFTWARE SOLUTION  
for ZERO DEFECTS in MANUFACTURING



## OUR UNIQUENESS AND SERVICES

- **ZERO DEFECTS** in **MANUAL & AUTOMATED MANUFACTURING**
- **SAFEGUARD** against **SHORTAGE** of **SKILLED WORKERS**
- **SME DIGITIZATION & ADVANCED PROCESS CONTROL**
- **OUTSTANDING OBJECT DETECTION** by **SELF-DEVELOPED SOFTWARE**

# Nominations for Awards 2024

Largest summit of Automotive and IT industry in Germany



**NEXUSTEC** + **vitlesco**  
TECHNOLOGIES

**WE ARE!**  
**NOMINATED!**

**#SmartFactory**  
**1.000.000 tested parts -> 0 ppm**

**JETZT ABSTIMMEN!**  
**IT. TEAM AWARD**

automotiveIT.  
Kongress  
Das Branchentreffen

Award for outstanding innovations proclaimed by State of Bavaria



innovationspreis  
Bayern 2024

Wir sind  
**nominiert!**

 [innovationspreis-bayern.de](https://innovationspreis-bayern.de)



GET AHEAD WITH  **TRiMiTi**

# HOW TO SAVE **50.000€** PER YEAR?

ZERO DEFECTS IN MANUFACTURING

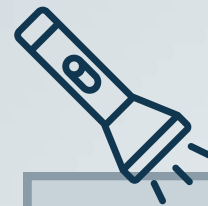


## SAVING MONEY AND FURTHER BENEFITS



## FOR YOUR PRODUCTION

# ⚡ PAIN TOPICS IN MANUFACTURING AND INDUSTRY 4.0 / IIOT ⚡



**Black Box Manual Work**  
**Manual work + QA is a Black Box**

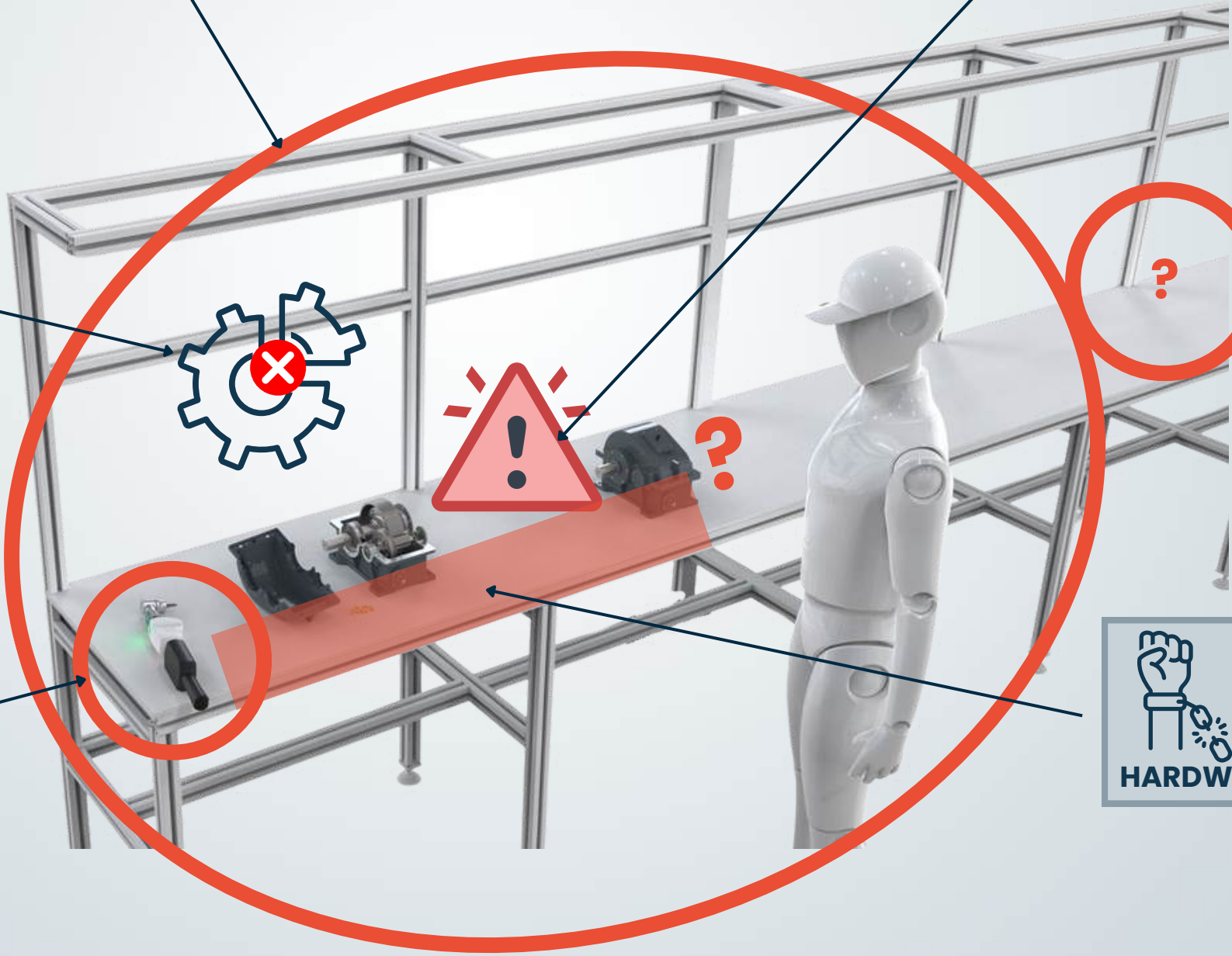
**COST**  
**Cost risk by rework + complaints**

**Most software are island solutions**

**LIMITED**  
**Often only limited EOL-control**

**High investment for Industry4.0-devices**

**HARDWARE**  
**Expensive hardware + overhaul services**







# SETUP for DATA GENERATION by CAMERA & AI

**Statement:**  
Inline-Quality- & Process-Control  
by own Detection SW = Zero Defects

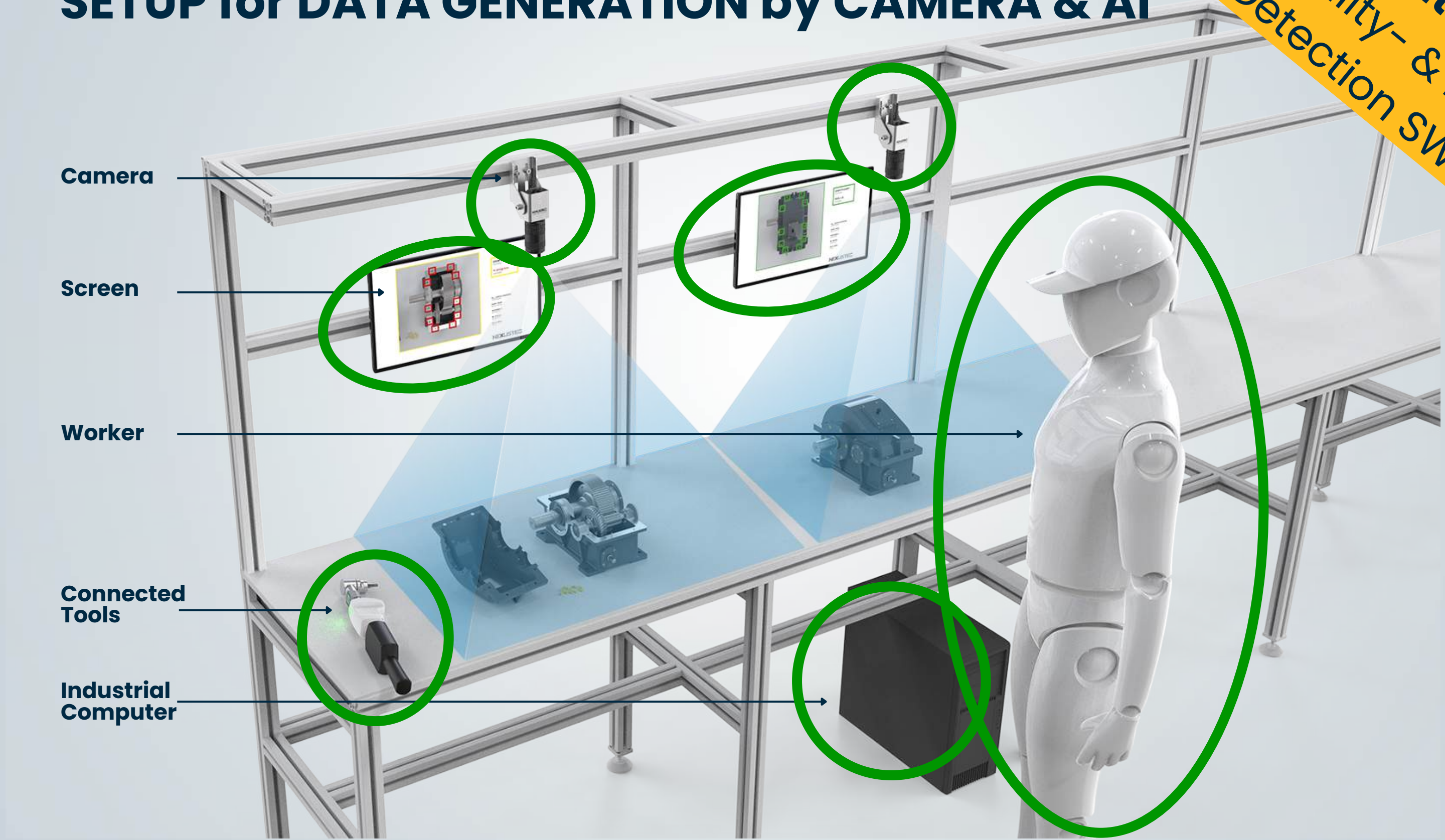
Camera

Screen

Worker

Connected Tools

Industrial Computer

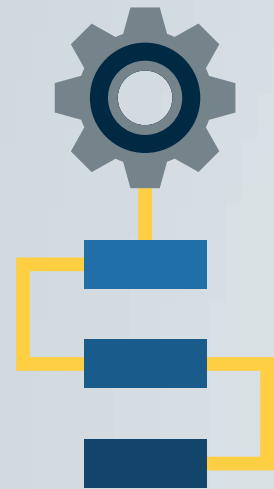




# PROCESS CONTROL in YOUR PRODUCTION

**Strength 1:**  
One key opens all the doors –  
quality, OEE, tracability, no rework

1



- **Detection of correct assembly work flow**

3



- **Avoiding of any failures**

2



- **Check of manual work**

4



- **Guided training on the product**

## Zero Defects:

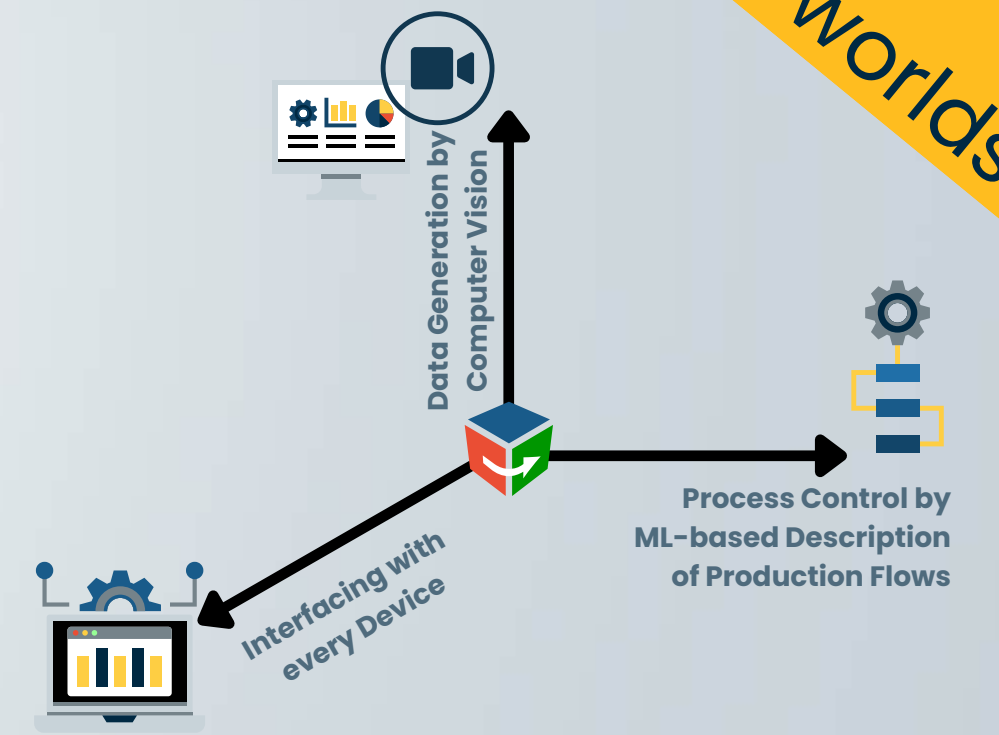
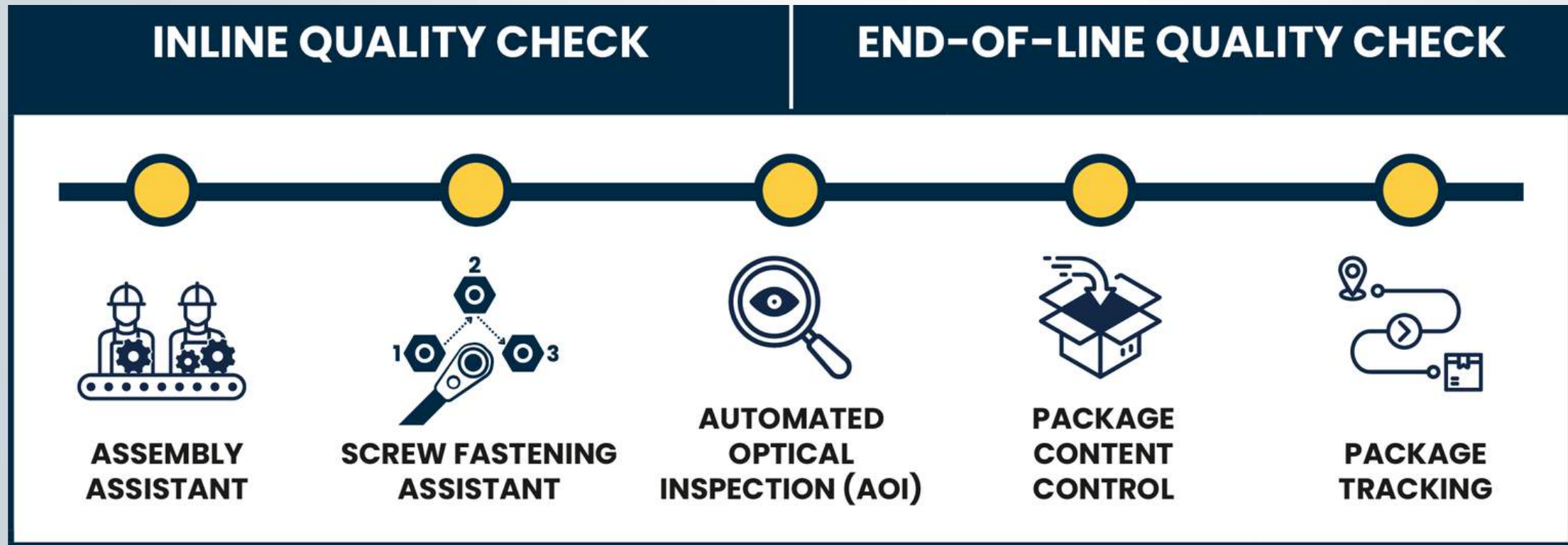
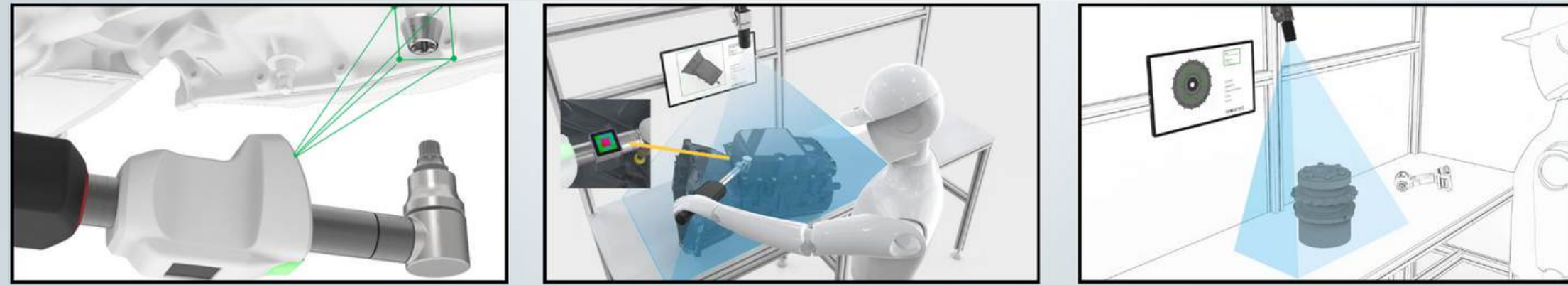
no scrap, no faulty production, no rework, no follow-up inspection, ...





# OUR READY-TO-PLAY AI-SOFTWARE & APPLICATION EXAMPLES

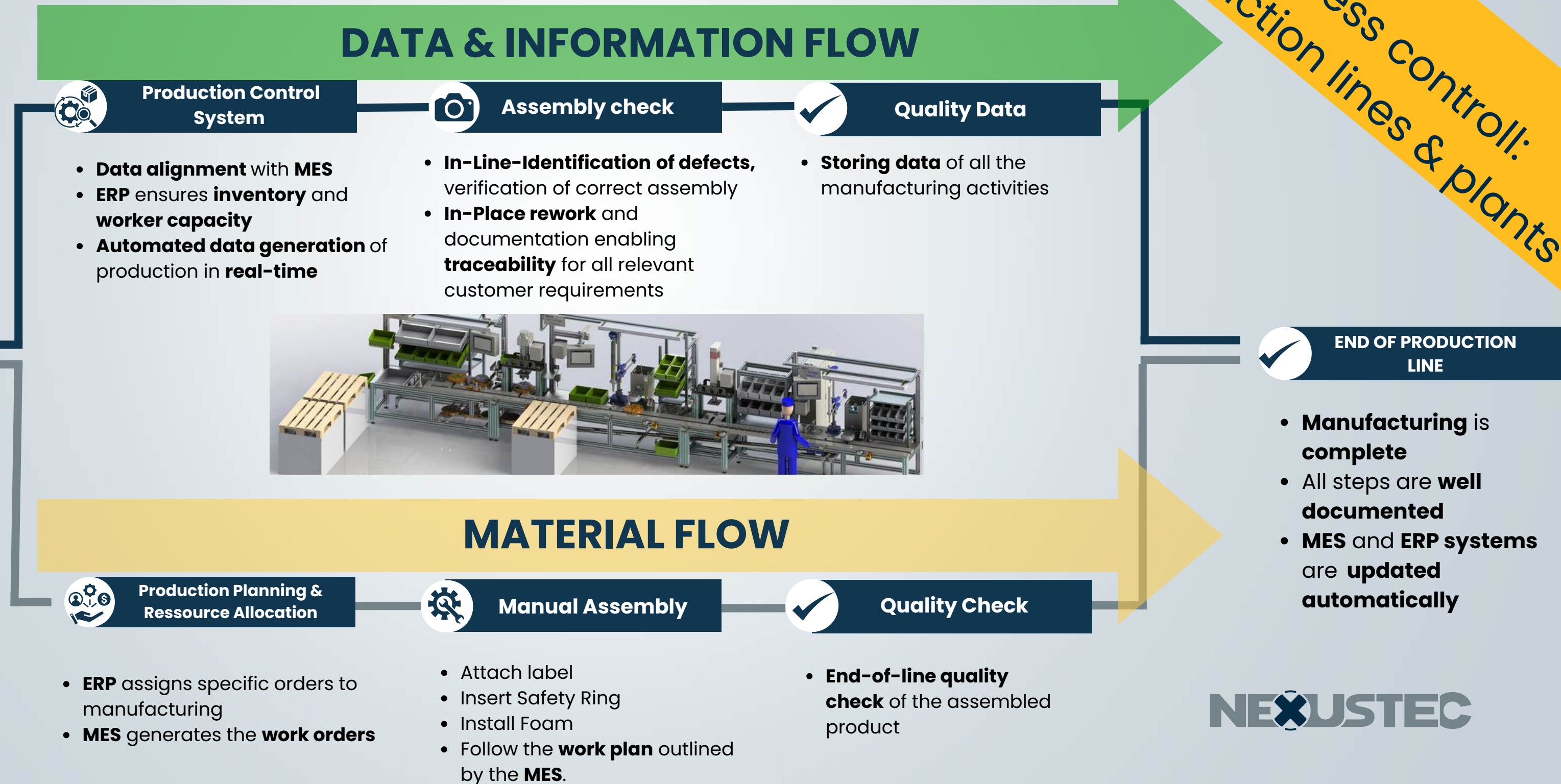
Strength 2:  
"Human centric automation -  
Combination of the best of two worlds"



# ACROSS ALL LEVELS OF MANUFACTURING:

- **DIGITAL TWIN OF THE MATERIAL FLOW** and
- **AI- & DATA-DRIVEN PROCESS CONTROL**

Strength 3:  
 "Data-driven process control:  
 Workstations, production lines & plants"



## Online Configuration

- Customized product
- e.g. color, shape, variant, accessories, stickers,...
- Order set for ERP system





# INTEGRATED SYSTEMS and CONNECTIVITY

Strength 4:  
One software -  
Your setup remains the same

Production Tools

Cameras  
(only HW)

AR-Glasses  
+ Drones

Scanners +  
Projectors

Control Units  
+ Systems



- Bluetooth
- WiFi
- RS232
- Ethernet
- USB

# TRACK RECORD AND CUSTOMER BASE

Markets: Automotive, Machine Building, Medtech, Electronics

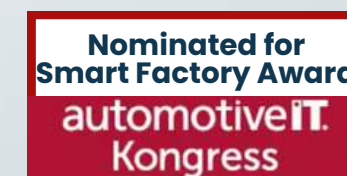
**vitesco** TECHNOLOGIES Best Practice Use Case  
in electronics production

**1,000,000+** produced units, **0 ppm failure rate** realized at automotive tier-1 Vitesco

Two combined Nexustec-applications:

- EOL-check at a fully automated assembly line for power electronics => parts were automatically checked on defects (18 categories) by AOI
- plus then: assuring manual JIS-packaging or rather supervising correct handling of rework parts => Avoidance of any mismatches

## Successful Projects and Clients:





# YOUR BENEFITS by AI-ASSURED QUALITY FOR MANUFACTURERS

## Problems for Manufacturers

Cost risk by rework + complaints



## Nexustec's TRiMiTi

No unexpected rework or complaint



Manual work + QA is a Black Box



Traceability and data generation for all work steps + tools + quality state



Often only limited EOL-control



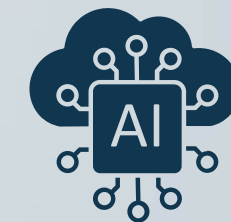
System solution for inline QA + Worker Guidance + Process Control



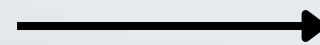
Most software are island solutions



One Software covers all manufacturing activities



Expensive hardware + overhaul services



All hardware is off the shelf



# WHO WE ARE – OUR CAPABILITIES

**We help manufacturers in:**

**1) ZERO Defects & cost reduction   2) SME digitization   3) against shortage of skilled workers**

**Company: Nexustec GmbH, Munich, Germany**

**Location:** Munich, 1 office, 8 nationalities

**Company size:** 14+1 employees

**Strong know-how in:**

- software development
- vision technology (own detection software)
- industrial production



**Maximilian Kaltenecker, CEO**

- with Nexustec since 01/22
- over 10 years industrial experiences in automotive
- amongst others managing director and plant manager



**Sourabh Bodas, CTO**

- with Nexustec since 01/15
- extensive experiences in machine learning + computer vision
- researcher at Fraunhofer, Berlin

**CONTACT:**

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[NEXUSTEC LinkedIn](#)



[NEXUSTEC YOUTUBE](#)

**Business Card**





# NEXUSTEC

**Thank you!**

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