DAGE OF Smart Manufacturing

Operator Training and Guidance Suite

Automated Training

Automated Assembly Guidance and Validation

Quality Assurance & Quality Control

Tracking and Traceability



Use Cases of Traditional Computer Vision



Predictive Maintenance





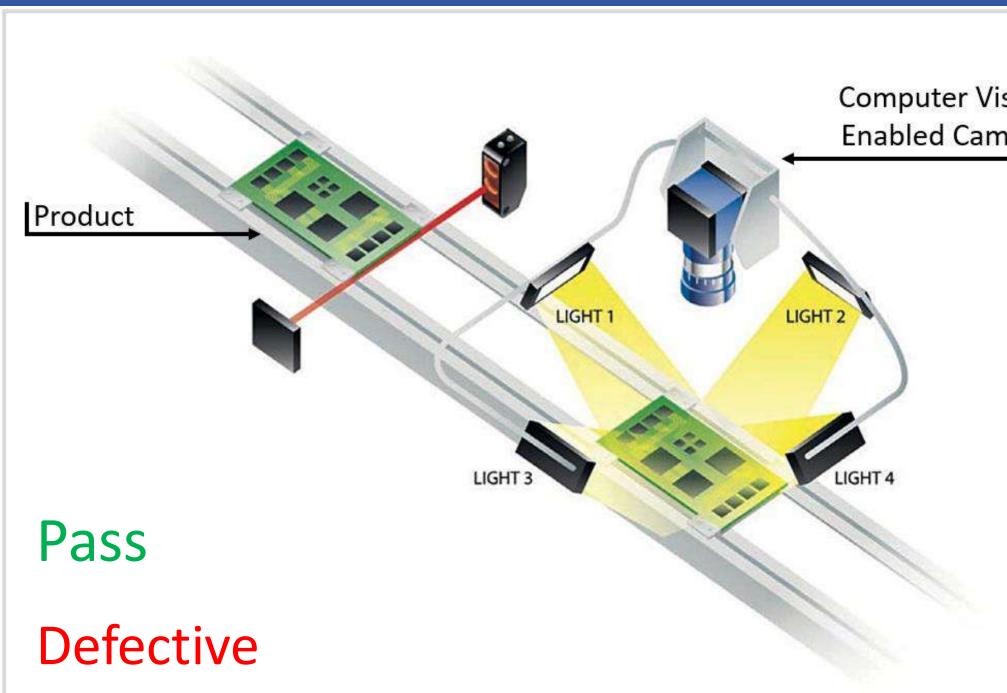
Safety



Barcode and labelling



Use Cases of Traditional Computer Vision







Computer Vision Enabled Camera

Traditional Applications of Computer Vision in Industry: Key Focus Areas

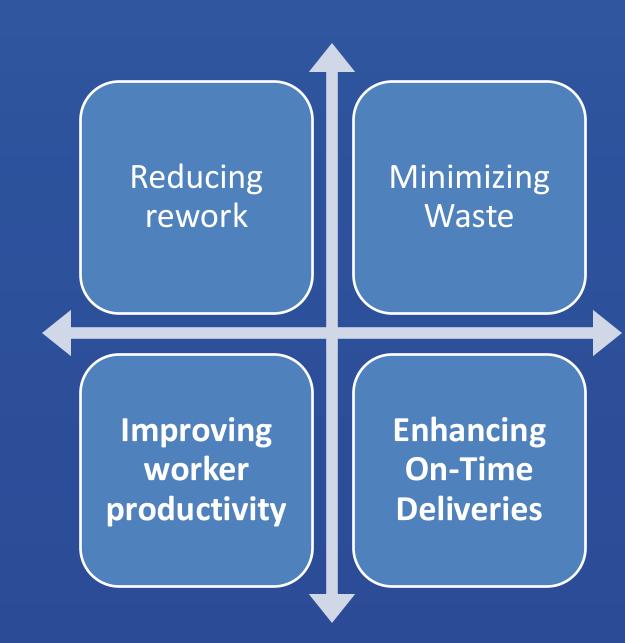
> Quality Control **Defect Detection** Counting

The systems are Reactive, Not Preventive



New Frontiers in Industrial Applications of **Computer Vision Systems**





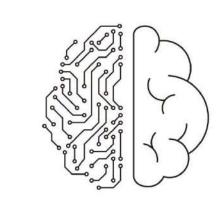




New Frontiers in Industrial Applications of **Computer Vision Systems**

Not necessarily robots in the traditional way we know

How? Multi-modal AI System – Generative AI



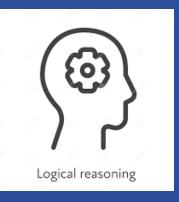




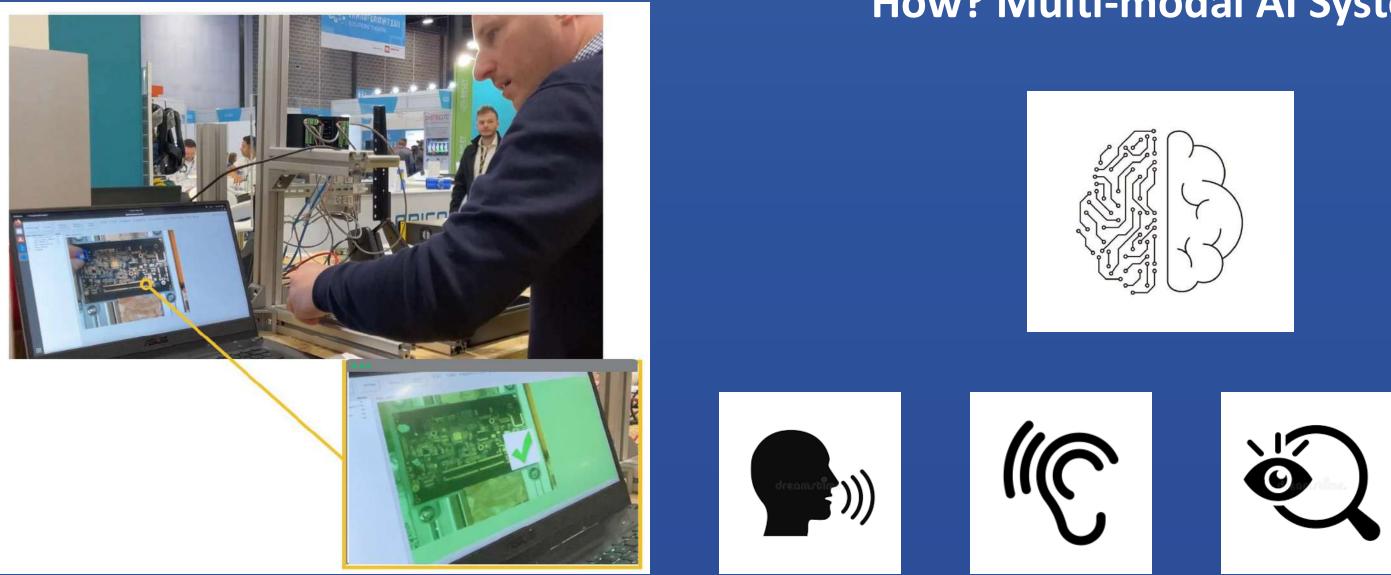








New Frontiers in Industrial Applications of **Computer Vision Systems**

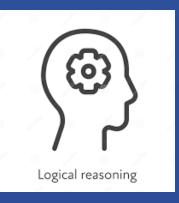


The key: empowering people using AI





How? Multi-modal AI System

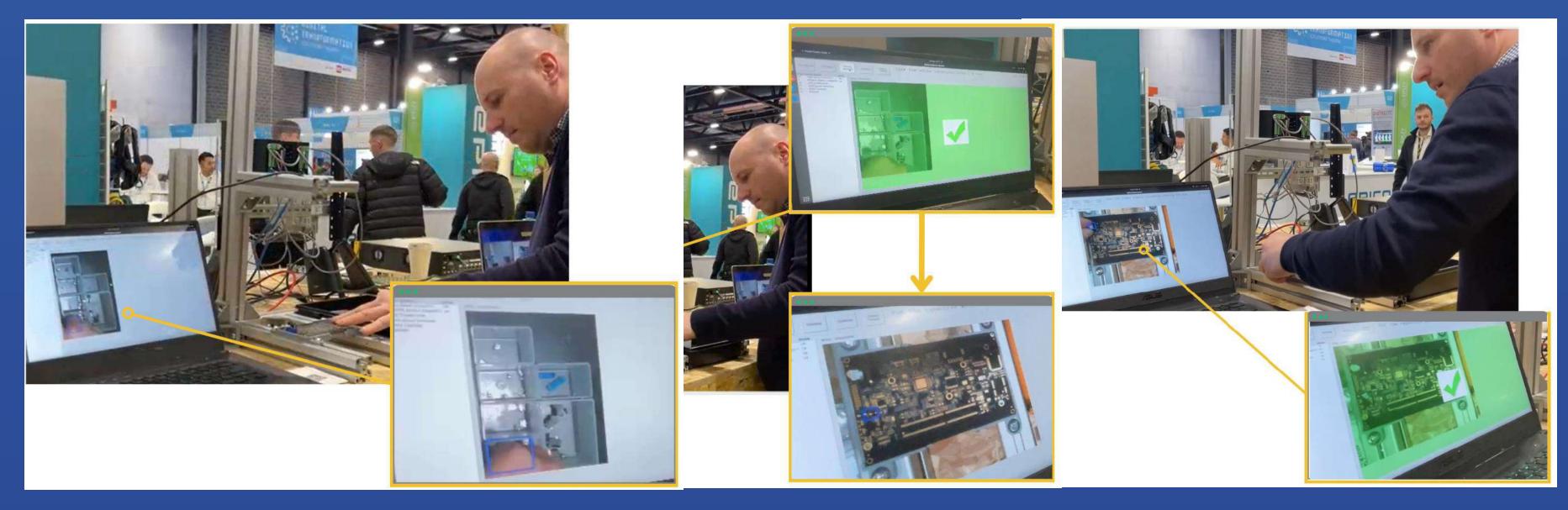




Operators Training and Guidance for SMEs

Instructions and Pick

Part Validation







Place and Validation

How to prepare the system to works **Teaching the system like a human** -Deep Learning Tool for AI Model building

DAFO AI Tool - Process Design	- σ X
roduct: 9. DRIVE BY WIRE New Process New Region Camera	
	Training Validation
	Objects Properties ×
	Name: Sensorgear Save New Feature
	View: REALSENSE Cel Images
	Before After Mistake Image of Ref. Properties Colour Detection Shape Detection
	Explanation: put the main gear in the position
	Take Picture
	000000
	000000
	Next Step



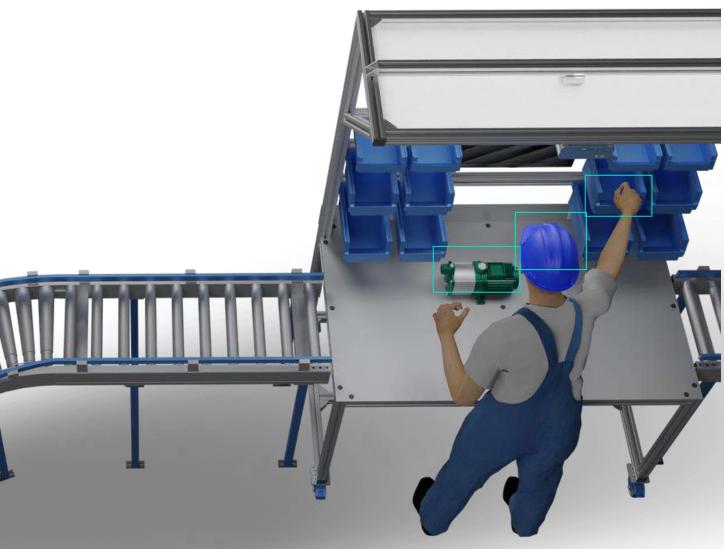


- Explain to the system how the product looks in each assembly step:
- Previous to being assembled ightarrow
- When was Correctly assembled
- When was Incorrectly assembled
- Record the video Provide the documentation Write the explanation



We are empowering people using AI to guide manufacturing excellence while enhancing workforce diversity 📀 through guided pathways

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Computer Vision Solutions For Smart Manufacturing



Thank you!

Questions?

Gabriel Giani Co-Founder & Tech Leader







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