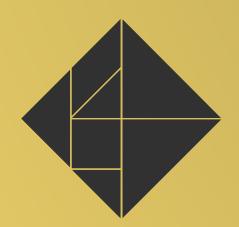
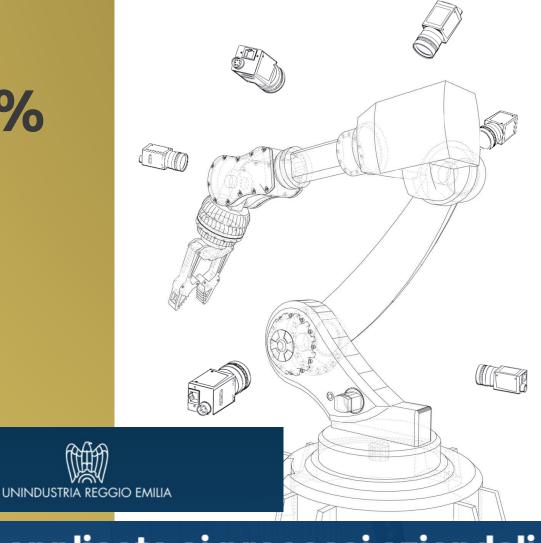


Strumenti di IA per ispezioni visive al 100%





Casi d'uso di Al applicata ai processi aziendali

NVENTIO.ai

About Us

INVENTIO.ai provides factories with powerful and easy-to-use AI software solutions to reach the best production quality

Skilled Technical Team



Our team is made of experienced industrial and software engineers obsessed with building a great product

Industrial Automation Expertise



We combine years of field experience gained in industrial automation and quality to solve real manufacturing problems

AI based solutions



Our solutions enables the usage of latest AI developments directly in line

Trusted by our Customers and Partners...

























And others...

...supported by Italian and International Investors









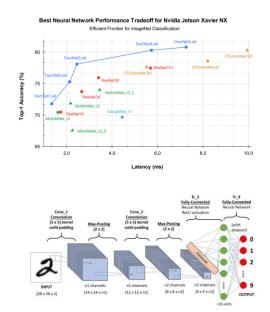
Our Pillars

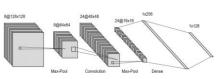
Software Development



Our software integrates **cutting-edge artificial intelligence** technologies for Machine Vision applications.

We rapidly adapt the latest AI technologies to the needs of manufacturing lines.





Automation Engineering

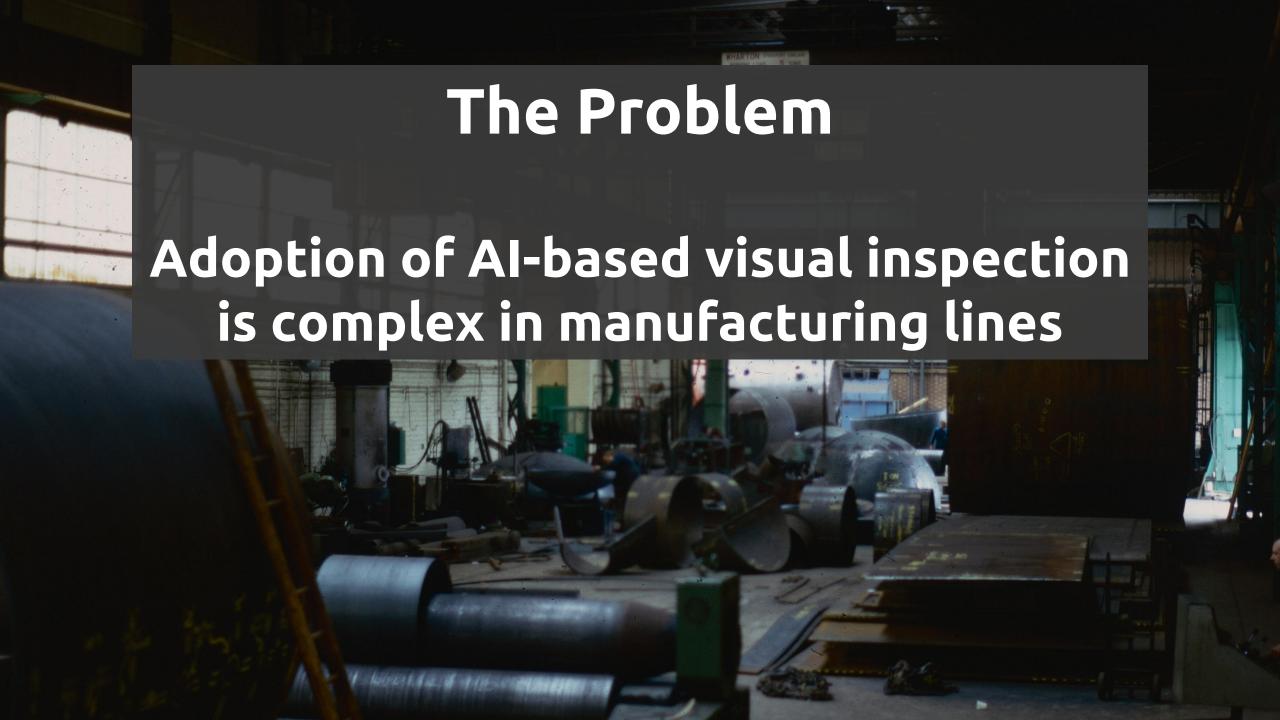


Our engineers are **automation experts:** we help our customers to **shape** their **needs**.

Our **software helps** our customers **in building innovative** industrial designs **and solutions**.







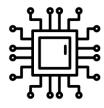
Why is AI-based visual inspection struggling to be deployed in manufacturing lines?

1. Lack of Edge-Al solutions

2. Complex training environment

3. Lack of internal skilled resources

4. Poor machine vision tech









AI cloud-based solutions are not robust enough for manufacturing lines and require higher infrastructure and training costs.

Training AI is often difficult in manufacturing lines due to a lack of sample datasets and due to the long waiting times for AI to be trained remotely.

Hiring and retaining resources to develop and maintain custom AI and Machine Vision solutions is difficult and costly.

Existing commercially available machine vision products fail to provide easy-to-use and flexible solutions.





Our solution: the Industrial Apps

1. Easy integration and smooth UX

Low-code interfaces to interact with industrial machines and IoT

2. Quick AI training on the line

Cutting-edge deep learning technologies to enable easy machine vision adoption in the shop floor

3. A visual total production monitoring **System**

A flexible and scalable solution to manage multiple installations through a centralized system



INVENTIO.ai

Industrial Apps: quick AI training, directly on the line

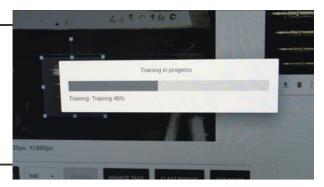
Show examples on the line

Use the app to simply and easily get samples of the task to train the AI.



Train the AI in a few seconds

Click "train" and in a few moments, the AI learns without an internet connection.



Test the AI and start working

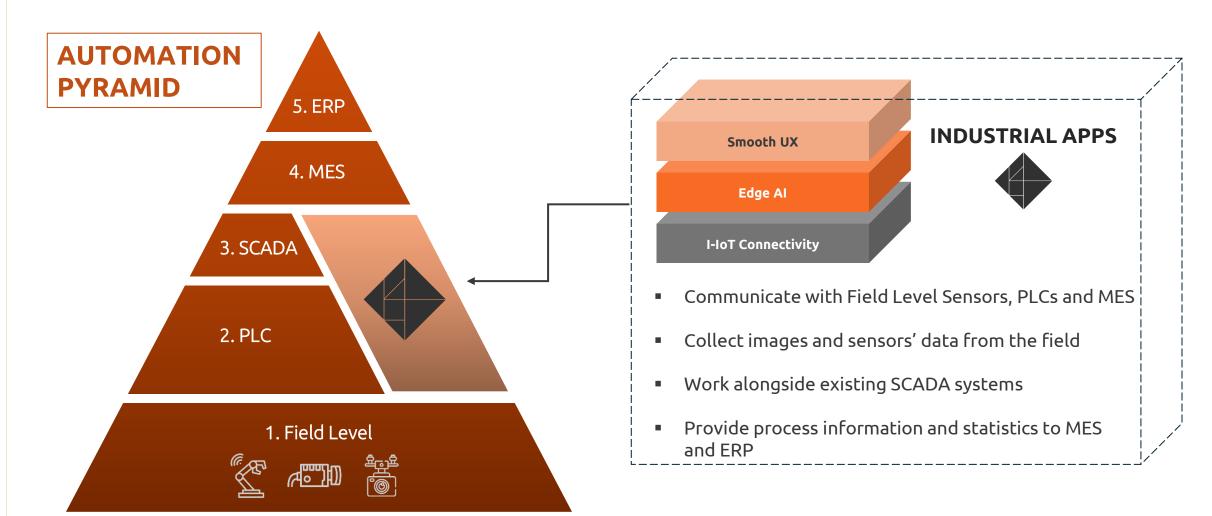
With zero deployment time, the app enables the machine to perform the task!



Thanks to the Quick Train functionality, you can iterate the process for every new product line!



MES Integration Ready: information can flow from sensors to your MES and ERP





▶ INVENTIO.ai

Hardware Agnostic: our software can be easily integrated with a great variety of physical interfaces

Industrial PCs and GPUs









And others...

Industrial Cameras...



Baumer





...and Robots









And others...

Connection Protocols [IT/OT]

- Siemens S7
- mqtt
- http
- OPC-UA
- EtherCat
- Modbus
- EtherNet/IP
- TCP/IP
- FTP

And others...



Our Industrial Apps can solve the limitations of AI-based Machine Vision applications in manufacturing lines



100% quality and control objectification thanks to optimized AI models for manufacturing



Easy to use and maintain solution, trainable directly from the line by line workers



High value for money with an average 6-month ROI, really low setup costs



How we can support you

End Users:

- Support in designing and implementing the optimal machine vision solution for your plant
- Hardware selection
- Software license
- Support and specific training





System Integrators and OEMs:

- Specific training to become experts in using our Industrial Apps
- Software license.
- Advisory in designing optimal machine vision solutions for your customers or your industrial machines





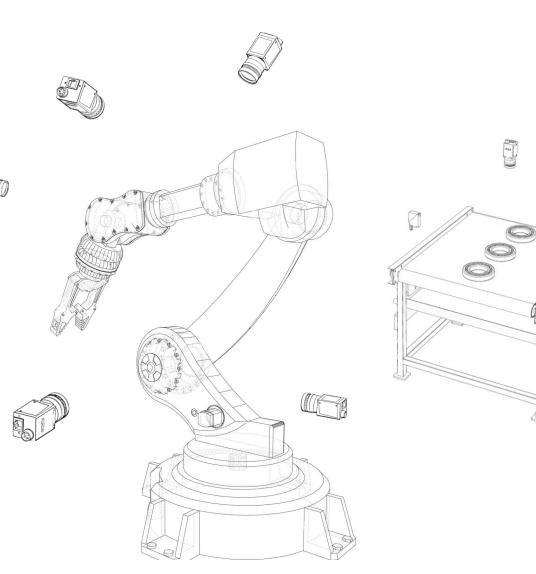








Examples of real value provided to our customers

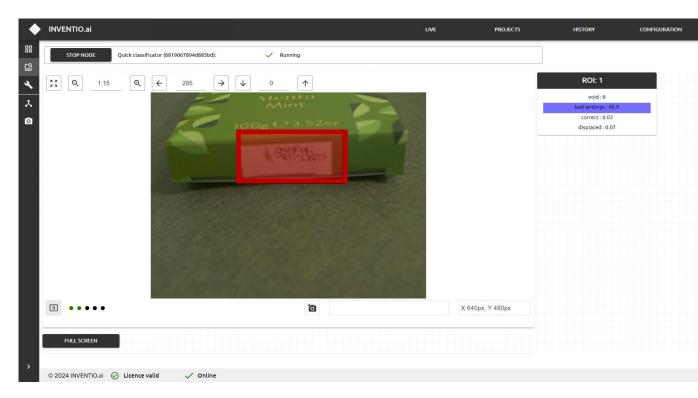




Labels Quality Control for the Food Industry

Thanks to our software, the client, a market leader in the food industry, has been able to objectify the verification of label accuracy, bringing the rate of undetected errors to zero.

4X ROI thanks to an automated defect detection process



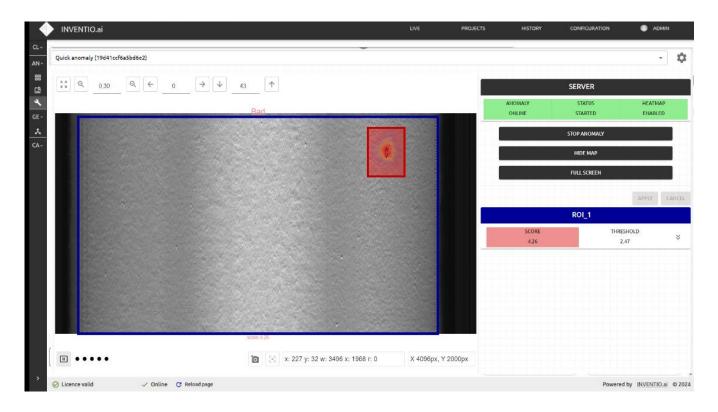




Process Intrusion Detection and Quality Control for Multilayer Plastic Films

Using line-scan cameras, INVENTIO.ai's software enabled the client to integrate visual inspection for intrusions in the plastic film production process, easily objectifying the quality control.

7 months ROI thanks to great reduction of machinery maintenance costs



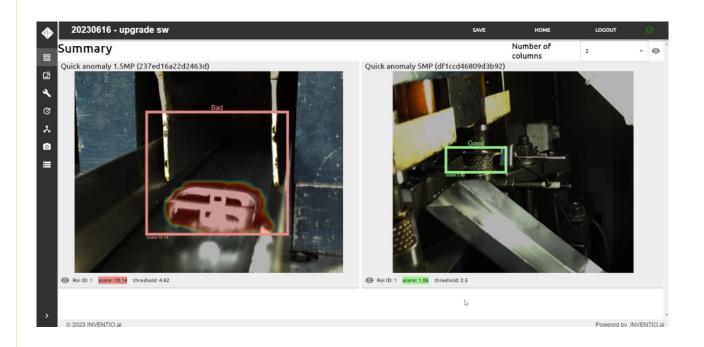


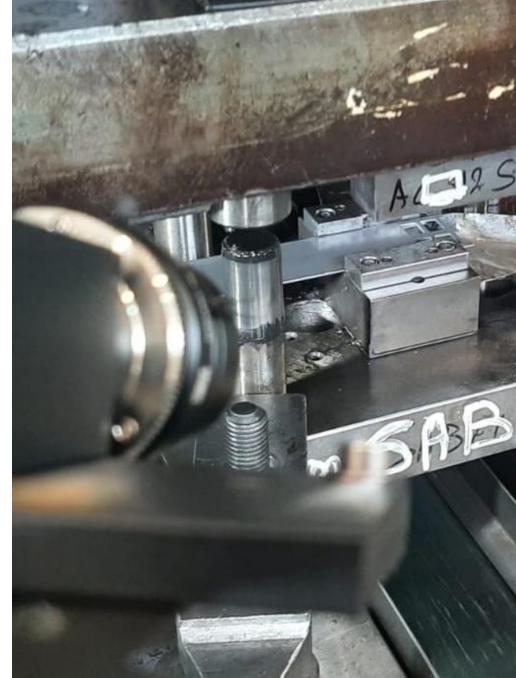


Visual Inspection of Multi-Step Molding

This project allowed the client to achieve 100% automation in the visual inspection of intrusions and defects during iron molding, reducing issues for the molds.

6 months ROI thanks to avoidance of costly molds' damages







Visual Inspection of Plastic Molding

This project allowed the client to achieve 100% automation in the visual inspection of intrusions and defects during plastic molding, reducing issues for the molds.

5 months ROI thanks to avoidance of costly molds' damages



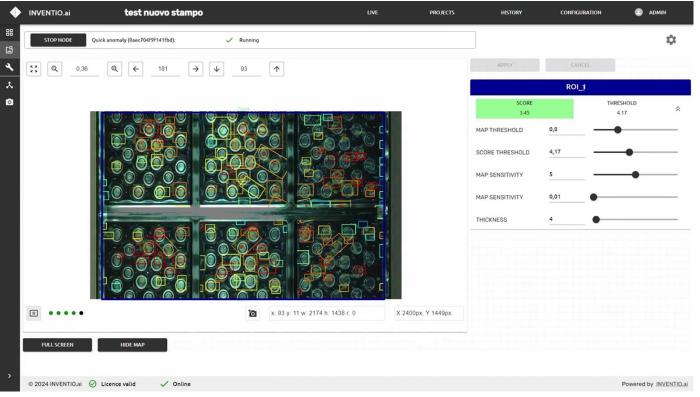




Visual Inspection of Plastic ThermoForming

This project allowed the client to achieve 100% automation in the visual inspection of intrusions and defects after plastic molding, reducing undetected defects to nearly zero.

4 months ROI thanks to 100% automation of quality controls



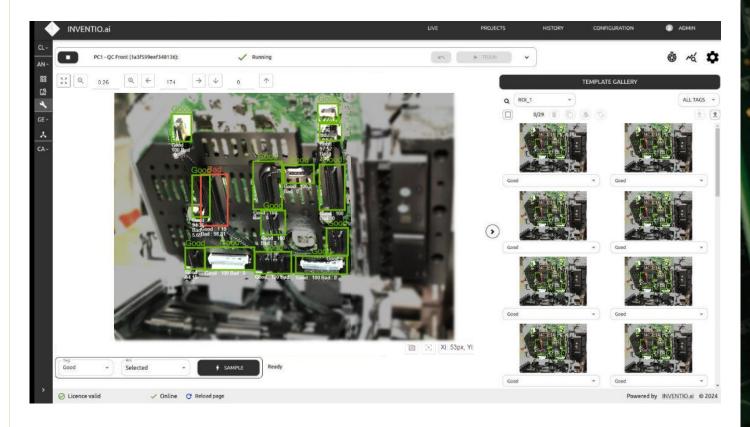


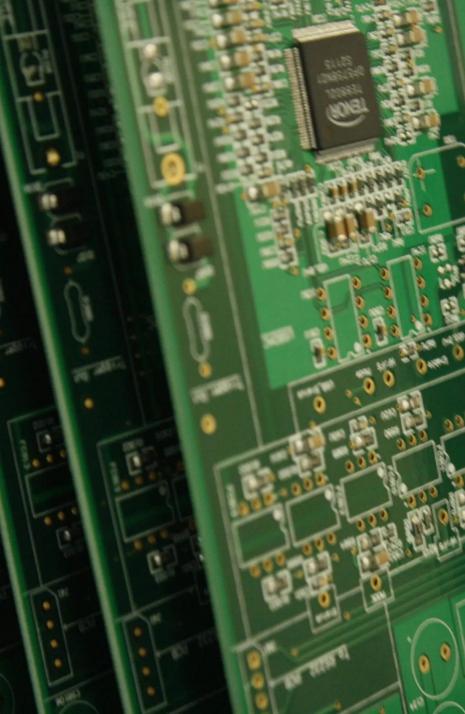


Automotive PCB Guided Assembly Control

Visual control to support line workers in real time in correctly assembling connectors and cables for an automotive PCB. The control led to zero chances of incorrect assembly of wires and connectors.

Al usage led to 80% cost reduction with respect to other traditional machine vision solutions







Welding Seams and Surface Quality Controls for Automotive Components

The control enabled the analysis of surface defects and welding seams using linear camera scans for defect detection. The solution identifies different kinds of welding defects, such as porosity and spatter.

Consistent reduction in undetected defects, reduction of humanbased controls







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