

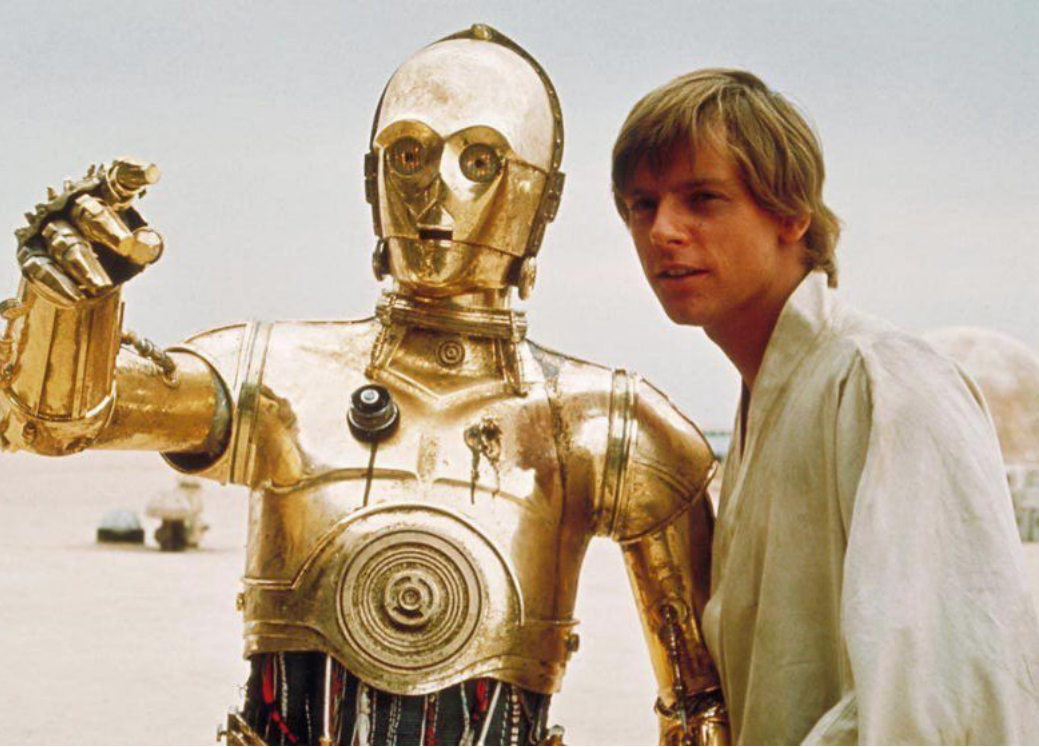


GETCOO

Claudio Berti, Ph.D.
+39 328 111 8423
claudio.berti@getcoo.com



ABOUT



GETCOO delivers **Computer Vision** solutions based on **Artificial Intelligence**

The core of our solutions is the proprietary technology **DART**



OUR TECHNOLOGY



Direct Acquisition and
ReTrieval

The core of our solutions is
the proprietary technology
DART

DART is used in lots of
different solutions in very
diverse sectors



OUR TECHNOLOGY

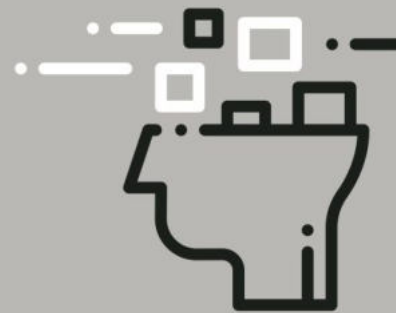


DART

Direct Acquisition and
ReTrieval

1. Speed

**FAST
TRAINING**



All training phase is extremely fast and flexible

2. Accuracy

Specific items

e.g., Self tapping screw - code: H725

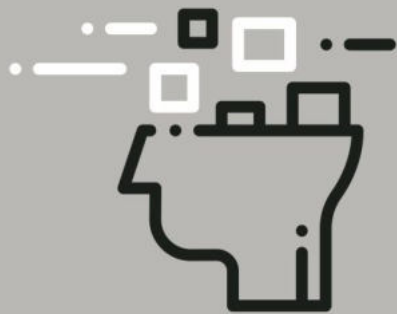
not just categories

e.g., Screw



1. Speed

**FAST
TRAINING**



AI training phase is extremely fast and flexible

A few images (10-100) are needed for the **training** of a new item with respect to the 10.000-100.000 needed by competitors' technologies

2. Accuracy

Specific items

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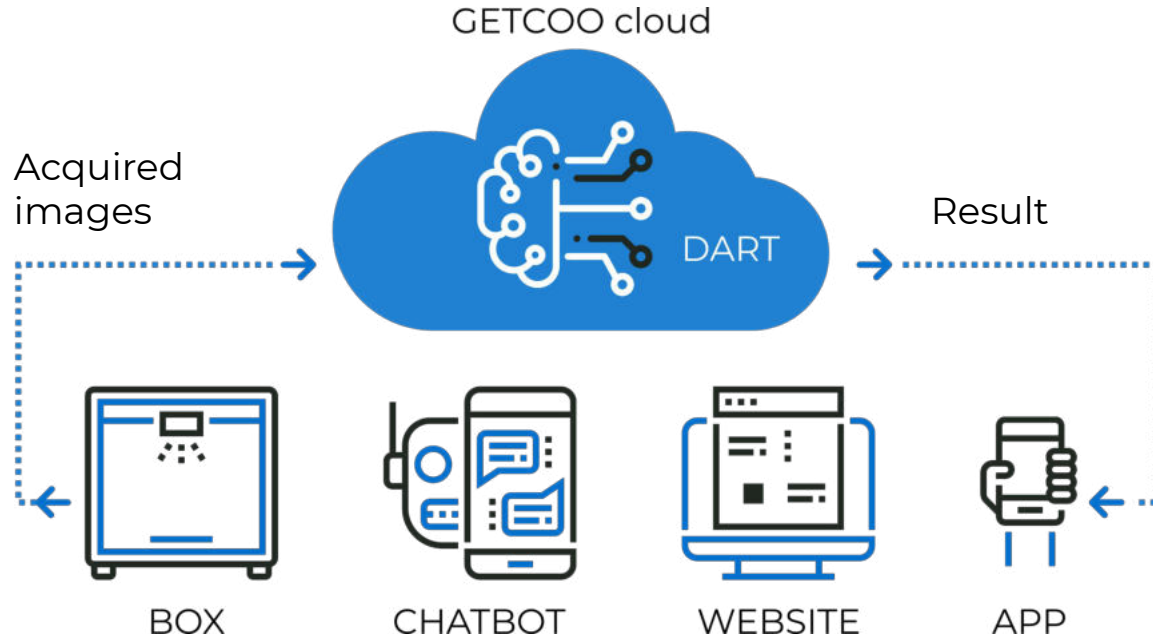
e.g., Screw



DART identifies not only generic categories, but exactly identifies items, down to the **ID code**



SOFTWARE AS A SERVICE



All our solutions are **Software as a Service** (SaaS). DART operates only in our cloud and neither the client, nor third parties have access to our technology. The client simply uploads images and obtains the identification result. This provides the best results for **performances and security**.





PIQAPART

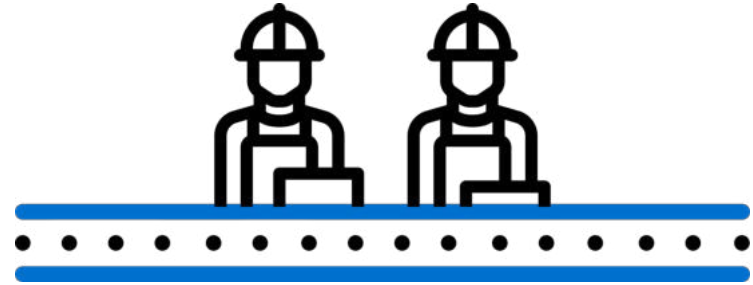
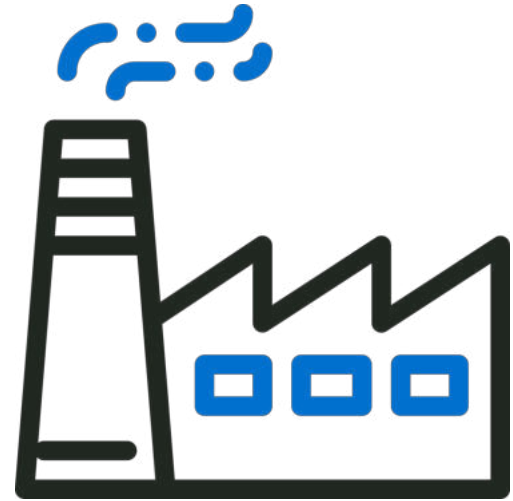
COMPUTER VISION FOR THE SMART FACTORY

The problem

Lots of manufacturing processes are still **human-based**

- Sorting of unmarked items
- Quality control
- High costs
- Slow and inaccurate

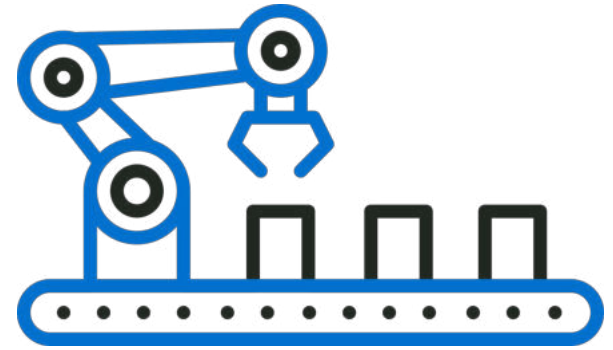
Affects **any** kind of **factory**, from the very small to the very big



The solution

Deliver Computer Vision solutions to improve manufacturing processes

- Streamline the warehouse management
- Improve the quality of production



HELP FACTORIES TO SAVE ON PRODUCTION COSTS

The solution



PIQAPART

COMPUTER VISION FOR THE SMART FACTORY





Piqapart is the SaaS platform of **Industrial Vision**.

Fast, accurate, powerful.

Save up to 40% on logistics, sorting and quality control tasks

Piqapart solves the problems related to warehouse management and production chain. Item **identification, sorting** and **cataloguing** or **quality control** of the manufactured items are typically human-based activities. This means slow processes with high error rate due to human judgement.



Thanks to Computer Vision Piqapart automates all these processes providing increased **speed**, **accuracy** and **flexibility**. It tolerates, deviations, distortions and lighting variations.



LOGISTICS

Identification of any item **without** traditional marking like **barcode** or QR code



Oggetto da identificare



Code: **4562199-01**

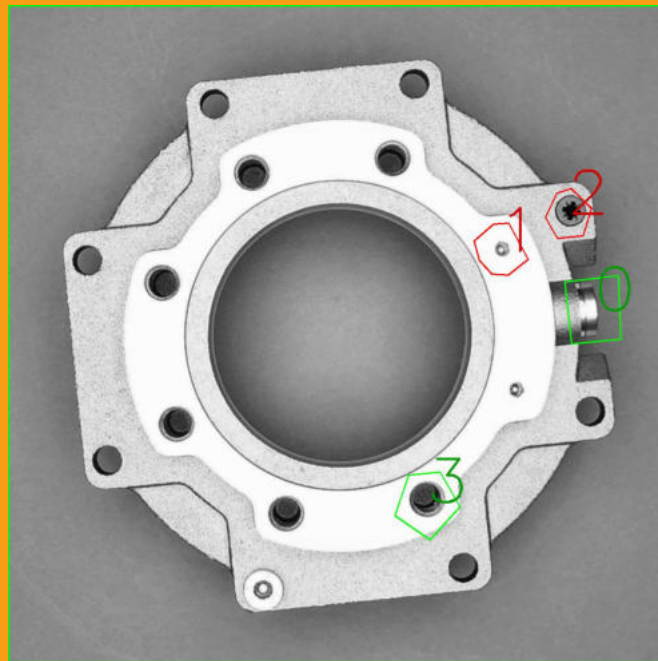
Description: *Raccordo pneumatico 90°*

Category: *Raccordo*

Match: **98.25%**

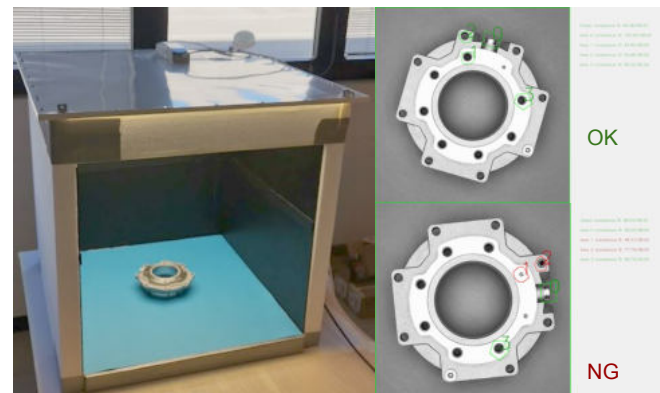
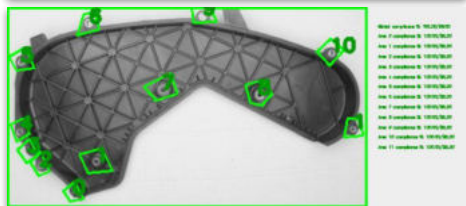
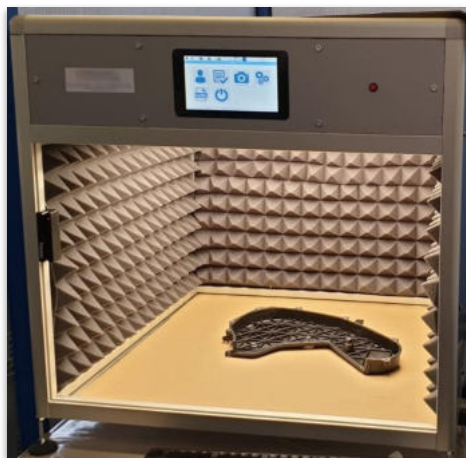
QUALITY CONTROL

Shape, dimension, **feature** presence,
orientation, misalignment, **flaw** presence



Global compliance %: 98.64/98.00
Area 0 compliance %: 99.20/98.00
Area 1 compliance %: 48.37/98.00
Area 2 compliance %: 77.79/98.00
Area 3 compliance %: 96.73/95.00

Identification and quality control are done with a **light box**



Advantages



Compared to
operators

CONSTANT

Works 24/7 keeping the same quality level on any line, shift and plant

AFFORDABLE

Identifies components and checks for flaws outside tolerance thresholds

FAST

Identifies components and checks for flaws in milliseconds



Compared to
traditional industry

MADE FOR TOUGH APPLICATIONS

Solves complex inspections, identification and localization applications impossible for classic rule-based algorithms

EASY TO SETUP

No programming setup needed, the proprietary technology “learns” automatically

TOLERATES VARIATIONS

Handles variations in lighting, distortion, and pose



Compared to deep
learning libraries

NEEDS LESS DATA AND COMPUTATIONAL POWER

The training requires just a few images, not millions. Being a SaaS solution, it requires a low computational power client-side

EASY TRAINING

Thanks to an easy-to-use web-dashboard, the training is easy, fast and flexible



PIQAPART



Our technology

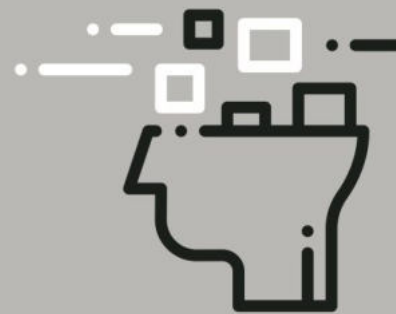


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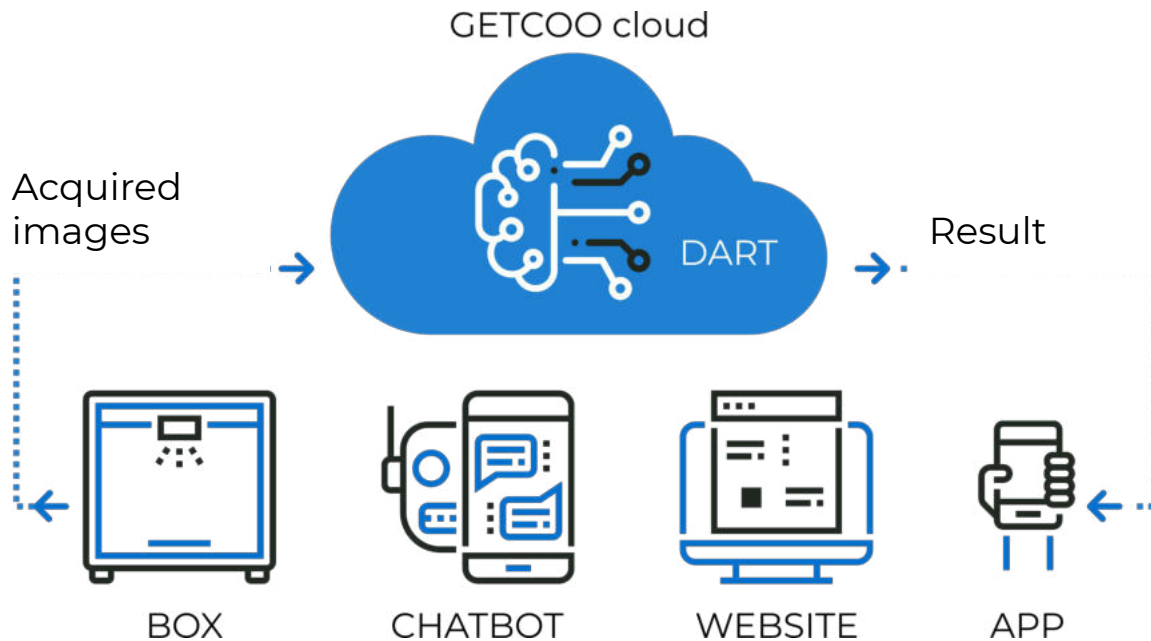
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Active projects, POCs, and collaborations

SICIS
THE ART MOSAIC FACTORY

 **CYPRESS**
EMBEDDED IN TOMORROW™



 **Zoppas Industries**
Heating Element Technologies

 **SIGIT**

 **DATALOGIC**
THE VISION IS YOURS

auxiell[®]
lean processes


GELLIFY

LANZ[^]DERA

B/S/H/

 **UNOX**[®]

 **BOSCH**

 **ANTREEM**

 **INNOVATION
DEVELOPMENT
TECHNOLOGIES**

ITAB

 **PIQAPART**



Awards and support



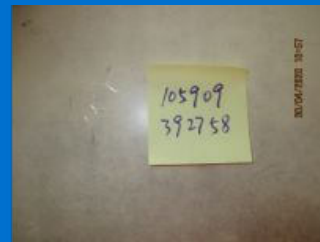
INBOUND LOGISTICS

Piqapart is well suited to identify items and check the **quality** of the products



INBOUND LOGISTICS

Piqapart can also count the items into a packaging and check the integrity of packaging





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