





Incontro con gli studenti del corso di Laurea "Artificial Intelligence"



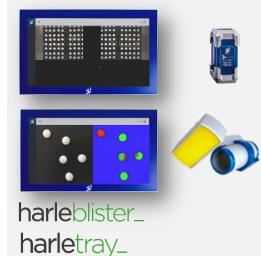
#### **Business areas**



# Vision inspection systems

#### Serialization and Aggregation solutions

#### 4.0 Pharma Software Suite







### Software points of strength and



3



Over 25 years of experience 100% Life Science focused



Full in-house software development -Proprietary Algorithms



In-house electronic and mechanical design



Full stack solution for Track&Trace and Brand Protection



Wide Experience and Consultancy for digitalization processes

+ 2000

Lines Managed in the world

## + 7000

Vision systems installed worldwide (+18000 cameras)





## Some of our Best Pharma Customers



# University and High School Co-operations







POLITECNICO

**MILANO 1863** 



Politecnico di Torino







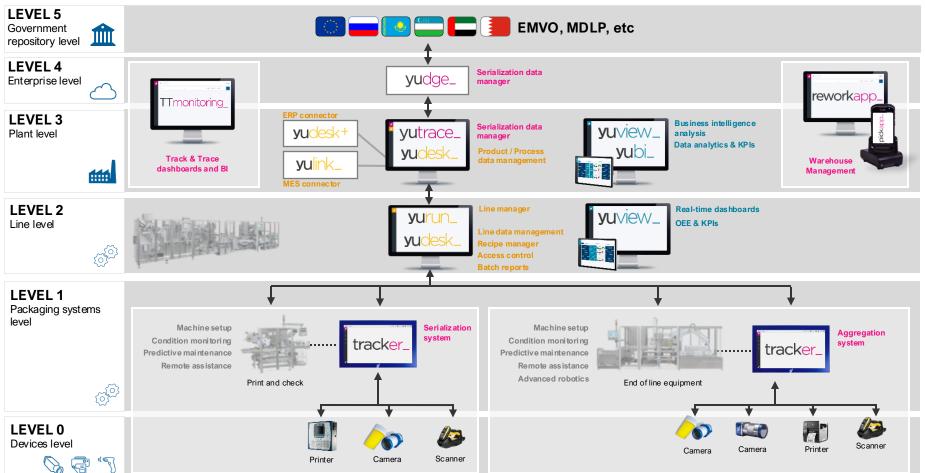


#### Serialization and aggregation hierarchy model

(according to ISA 95)

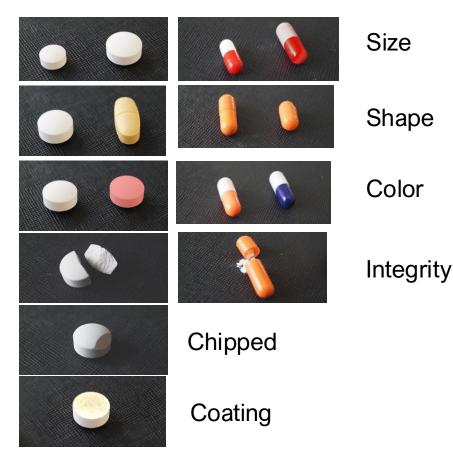
rev.4 2024

**SEA**VISION



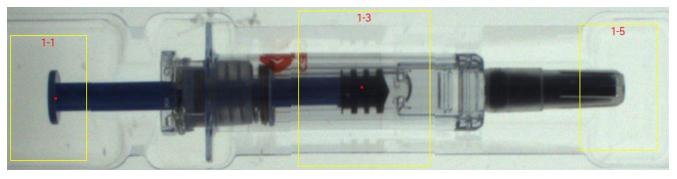
## Visual inspection on tablets, capsules and blisters SEAVISION

**Blister inspection** 



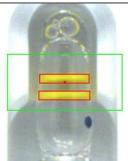
#### **Multi-part inspection**





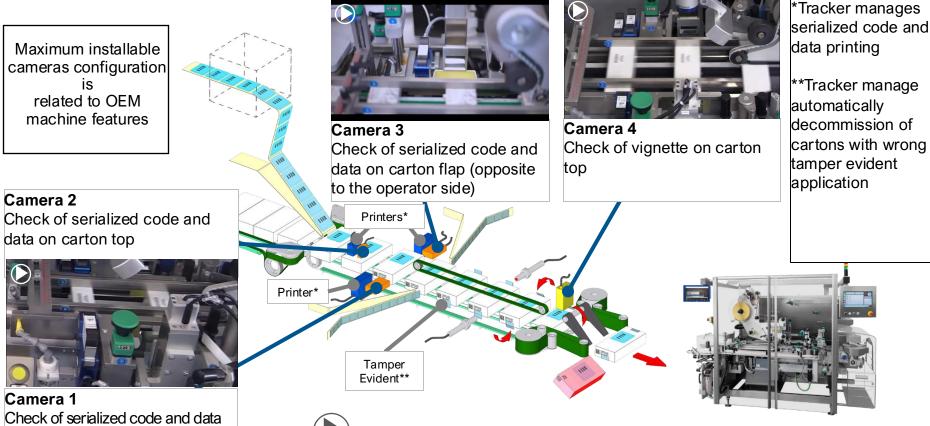
#### **Colored ring inspection**





# Tracker | Serialization possible configuration on print and labelling machine





on carton flap (operator side)



Click on the videos to play





We See The Future | No Magic





# ARGO Vision empowers companies with AI.

We develop innovative and high-customizable AI-based solutions to boost your business up. We are expert in Machine Learning and Computer Vision.

Our Al engine is boosting companies for Quality Control / Inspection : AR/VR : Smart Parking : Video-Analysis : Bio-metrics : Industry & Big Data solutions.





### Numbers matter

#### 15,000+

Sensors using technology we developed

600+

Sensors using our CV engine

20+

Successful projects since 2016

30+

Scientific publications

People in the R&D team

8

20+

Training courses



# The ARGO «burger»



2016 – 2020: AR/VR, video surveillance, automotive, machine vision, apps, etc.



Pharma via SEA Vision (2021+)



**Business Logic**: the combination of **one or more algorithms** from the ARGO Vision Al-modules in the application domain. Examples: detecting faces and trigger an alarm, tracking people in a parking, create a 3D of the pills, etc.



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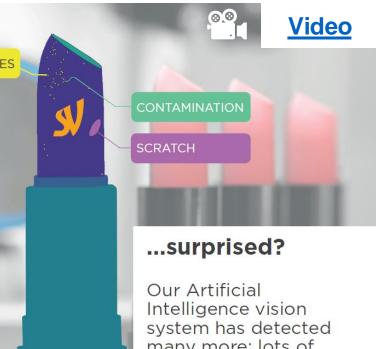
**ARGO Vision Al-modules**: the **combination** of the lower-level primitives lead us to more sophisticated algorithms. These algorithms resolve specific tasks such as detecting stuff, rectify images, classify images, track objects, etc.

**ARGO Vision Al-core**: the "distillate" of the research and prototyping of algorithms makes the Al-core. This distillate is arranged by "atomic" primitives aim at creating the upper-level of multiple, and more sophisticated, algorithms.

ARGO Vision R&D: a wide framework of research and prototyping of algorithms. Topics: Vision, ML, Math, Geometry, Algebra, etc. Frameworks: OpenCV, Pytorch, TF, other libs. Research: books implementations, papers, blog.



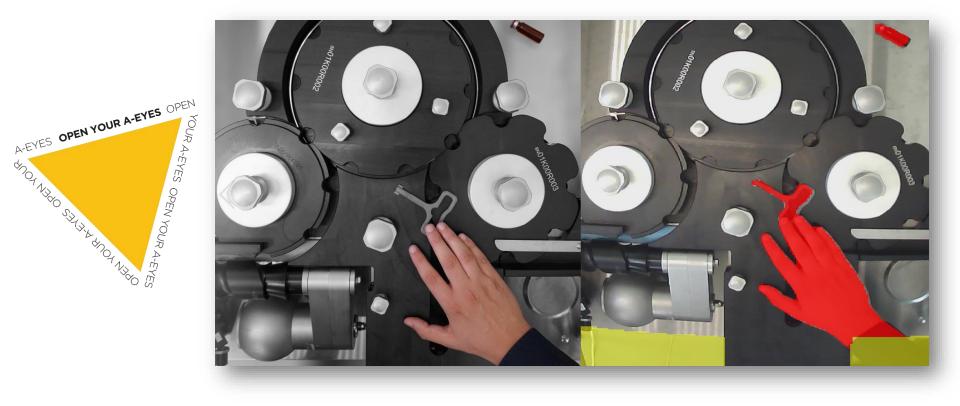




Our Artificial Intelligence vision system has detected many more: lots of pinholes and differences in colour, as well as the scratch you saw, visible with the naked eye.

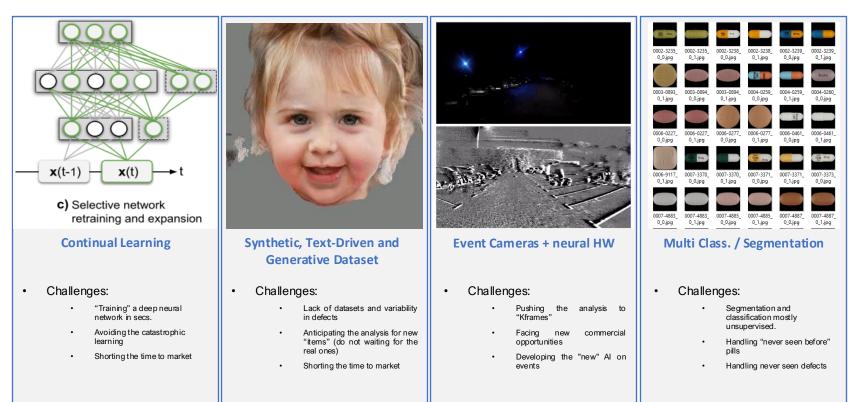
#### **Line Clearance**







## R&D

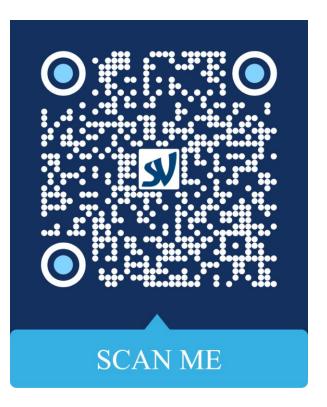




## Contact

Applications: https://seavision-group.com/careers/

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**NRISORSE** 





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#### 12 novembre 2024 · H 18 SEA Vision Via Claudio Treves 9/E, Pavia

