



**GABRIELE CONTI**  
**Area sales manager**

**ROME, 12th November 2019**



# Who we are



FOUNDED IN 1994

PIONEER IN MACHINE VISION IN ITALY

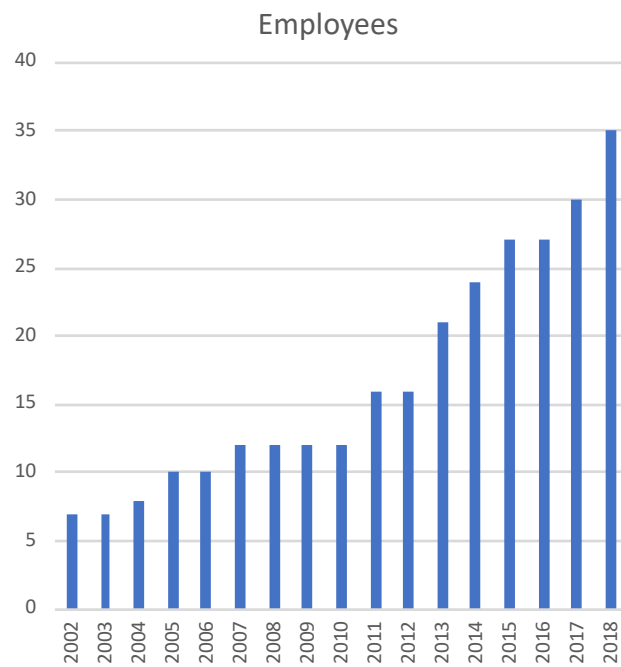
MACHINE VISION MARKET TECHNOLOGICAL REFERENCE

WIDESPREAD PRESENCE ON TERRITORY

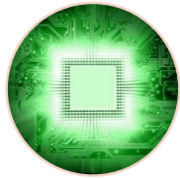


# Our Team

40 people



# | Our Mission



ALWAYS  
PROVIDING  
ADVANCED  
PRODUCTS AND  
SERVICES IN THE  
FIELD MACHINE  
VISION



BE THE REFERENCE  
PARTNER FOR  
COMPANIES WHO  
WANT TO INVEST  
IN THIS MARKET



GROWING BY  
MAKING OUR  
CUSTOMERS  
GROW

# | Our Market Share

MORE THAN 3500 COMPANIES HAVE CHOSEN iMAGE S

TECHNOLOGICAL PARTNER

TURNOVER IN CONSTANT GROWTH

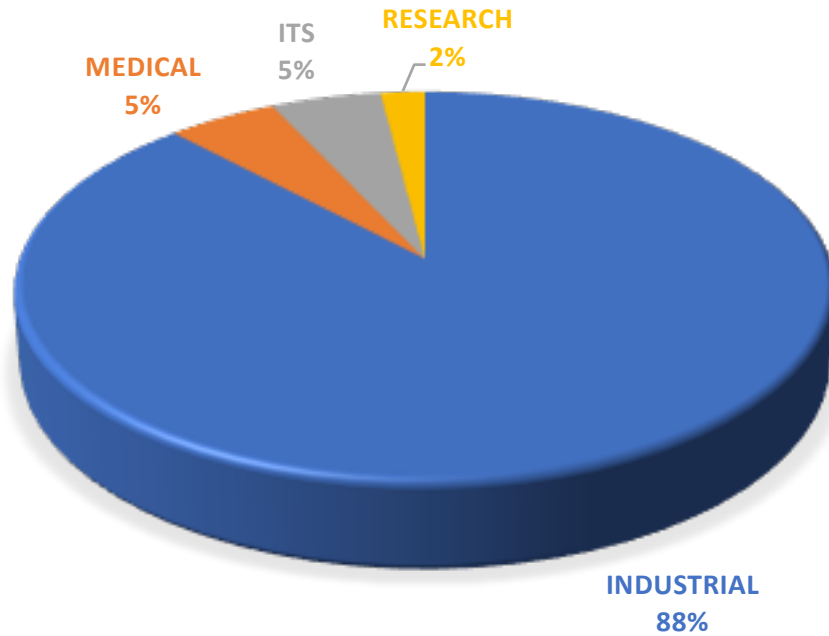
OVERALL PRESECE IN THE MARKET

MORE THAN 30,000 COMPONENTS SOLD PER YEAR

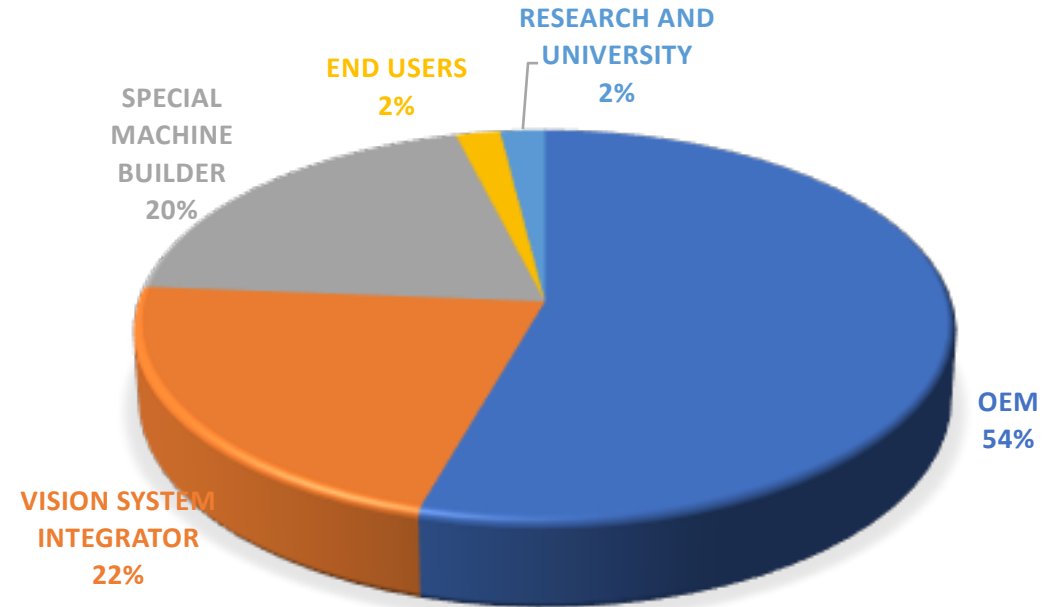


# Our Market Share

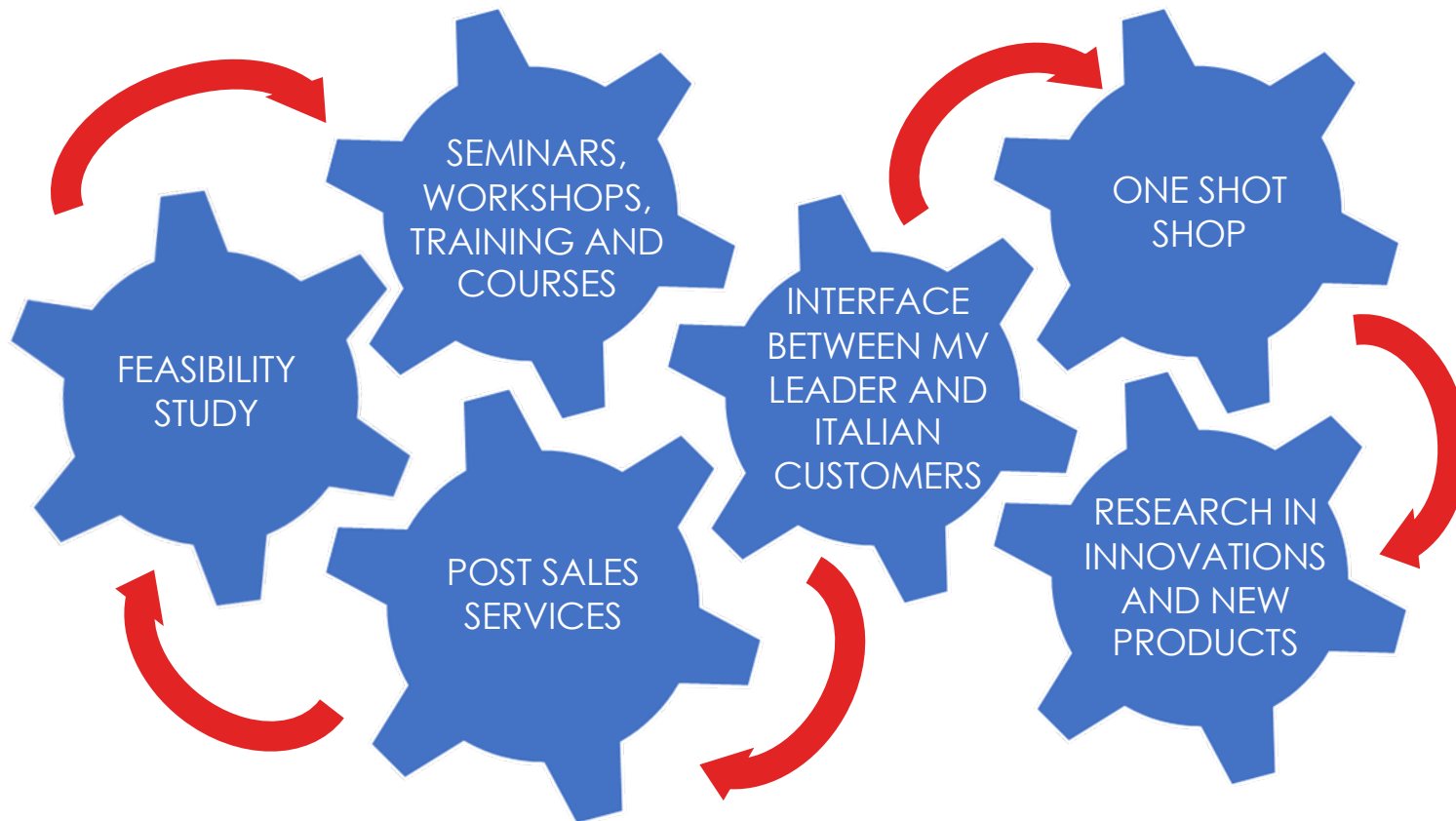
MARKET



OUR CUSTOMER



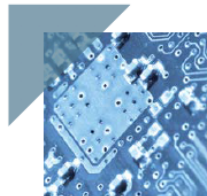
# | What We Do



# Products



SISTEMI DI ILLUMINAZIONE



FRAME GRABBER



SOFTWARE



SISTEMI EMBEDDED



SISTEMI DI REGISTRAZIONE  
AD ALTA VELOCITÀ



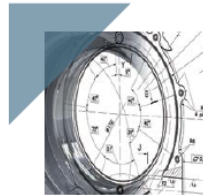
OTTICHE



TELECAMERE



SISTEMI MULTISPETTRALI  
ED IPERSPETTRALI



SISTEMI 3D



CAVI ED ACCESSORI



CUSTODIE E SUPPORTI  
PER TELECAMERE

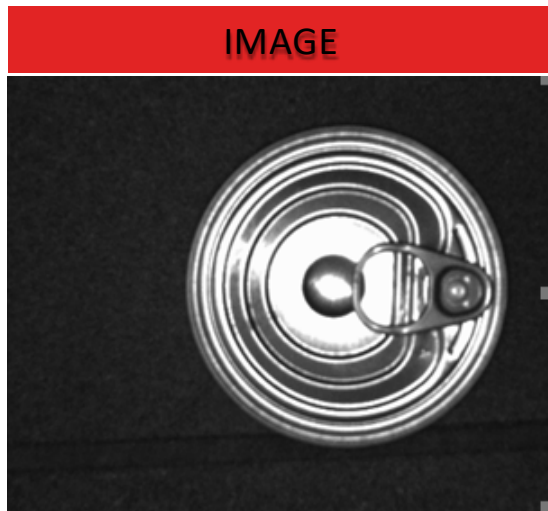




# | Our Future



# Machine Vision and Industry 3.0



DATA

Inspection Results		Time Stamp	
Parts Inspected	500	6/27/2019	12:36:29.000
Parts Skipped	201		
Pass	204	Inspect Time	107.971 ms
Reject	0	Trigger Rate	3.640 Hz
Recycle	0		

Inspection Status

**PASS**

DECISION



# | Machine Vision and Industry 4.0



SYSTEM INTEGRATION

VISION EMBEDDED

VISION ROBOTICS

MACHINE/DEEP LEARNING

# | System Integration and IoT

SHARING DATA AND IMAGE IN VERTICAL WAY

SHARING DATA AND IMAGE IN ORIZZONTAL WAY

DATA AND IMAGES AVAILABLE IN THE NETWORK

PREDICTIVE MAINTENANCE

REAL TIME CONCEPT



# Vision Embedded

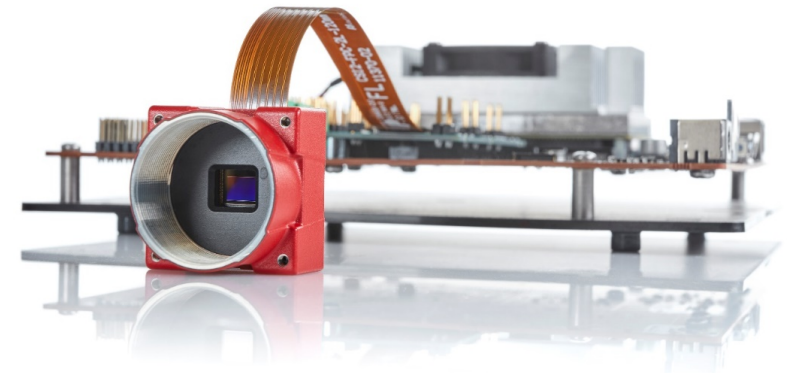
INTEGRATION

SPEED

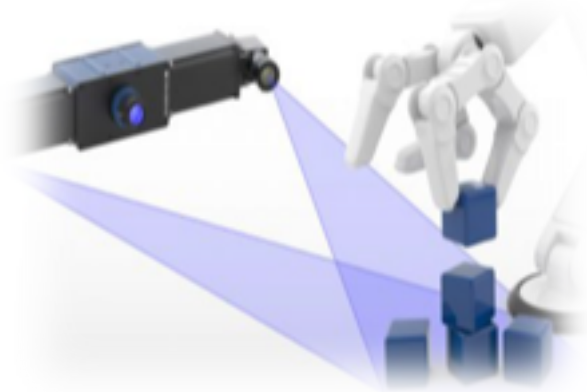
REMOTE ANALYSIS

EFFICIENT DATA EXCHANGE

REAL TIME PROCESSING



# Vision Robotics



ITALY IS THE SECOND MARKET IN EUROPE

ROBOTS NEED EYES

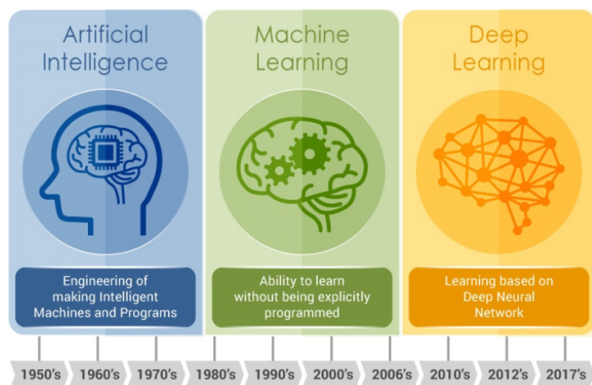
ROBOTS RUN SIDE TO OPERATORS (COBOT)

BIN PICKING

FACTORY HAVE A LOT OF REPETITIVE TASKS FOR LOW VALUE ADDED OPERATIONS

AGV, NEW ERA FOR ROBOT

# Machine Learning and Deep Learning



ARTIFICIAL INTELLIGENCE

MACHINE LEARNING CONCEPT

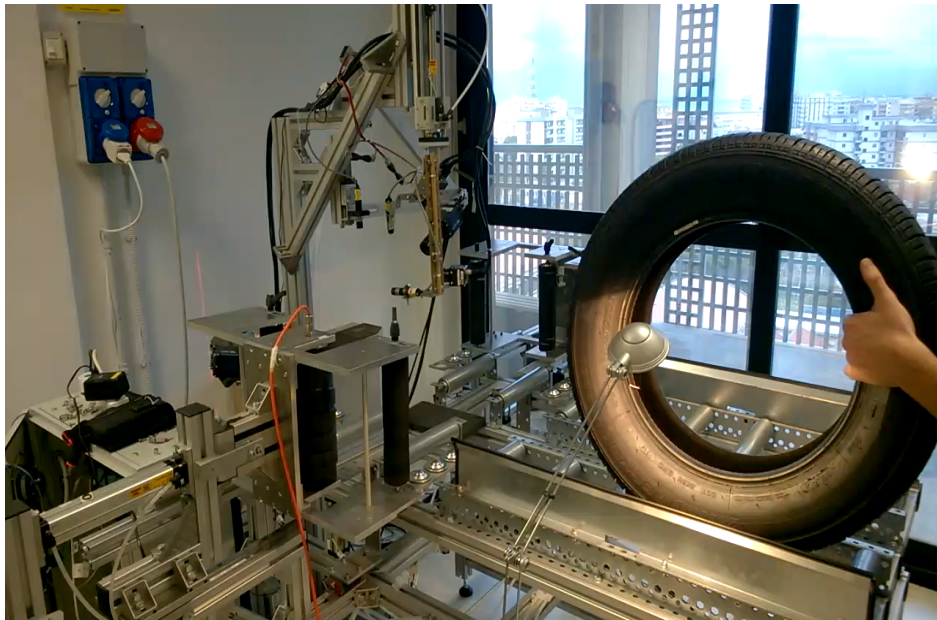
DEEP LEARNING CONCEPT

OBJECT DETECTION

DEFECTS CONTROL

NOVELTY DETECTION

# | Deep Learning – Tyre Industries

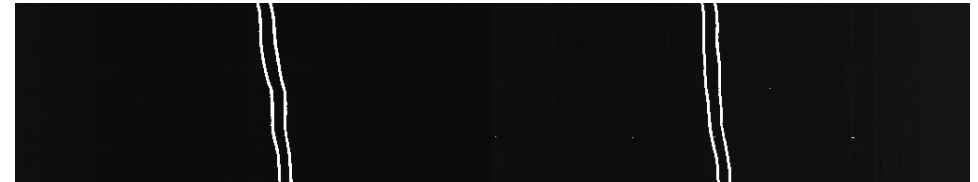
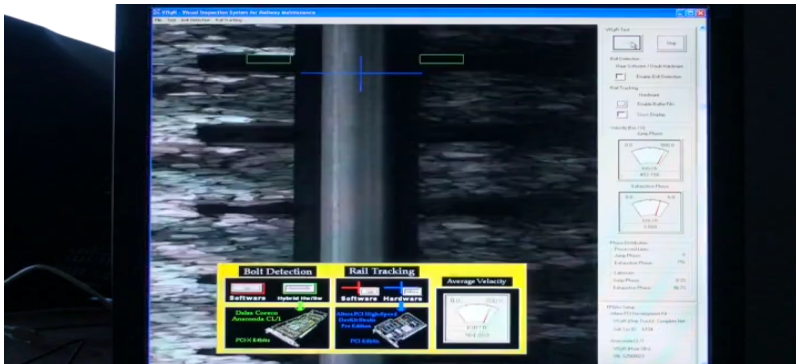
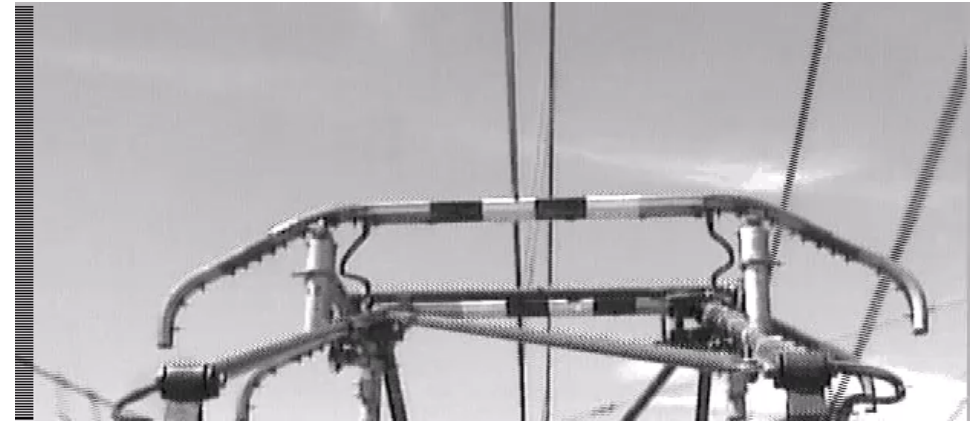




# Robotics – Bin Picking



# System Integration and IoT – Railways Diagnostics and Maintenance

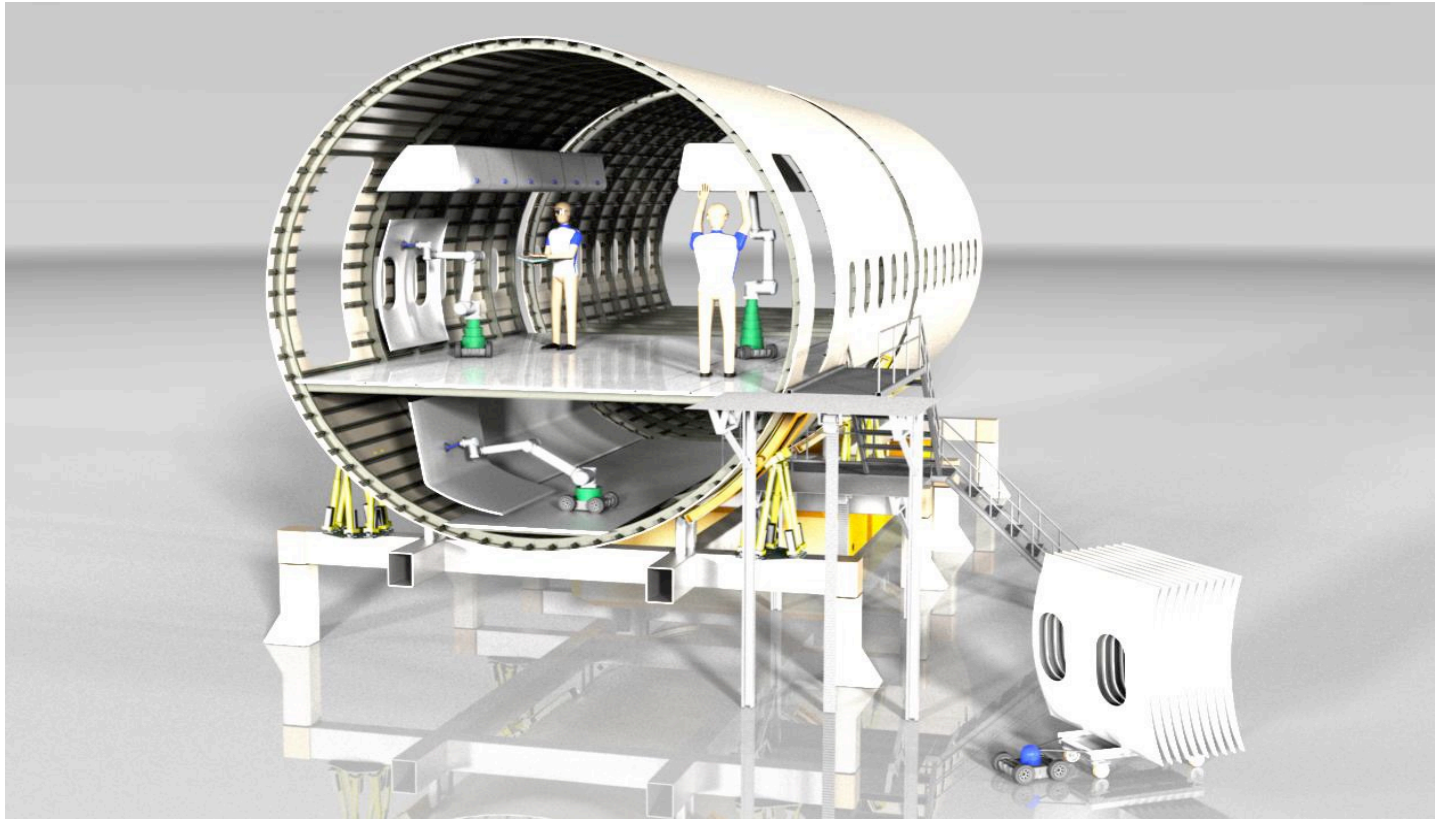


COURTESY OF C.N.R. STIIMA



# | Collaborative Robotics – Airbus

**Acclaim** Automated Cabin and Cargo Assembly Processes for Passenger Aircraft

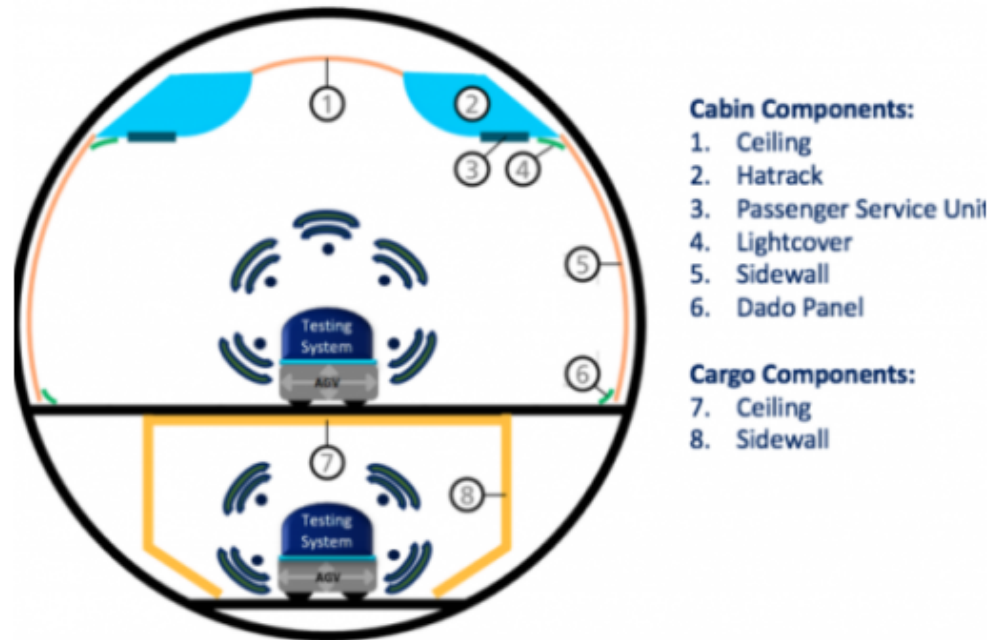


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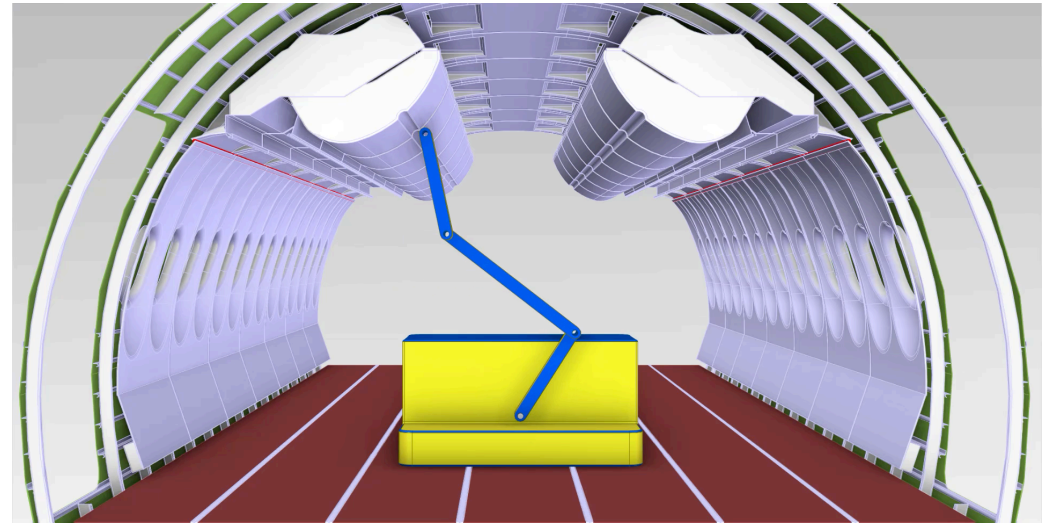
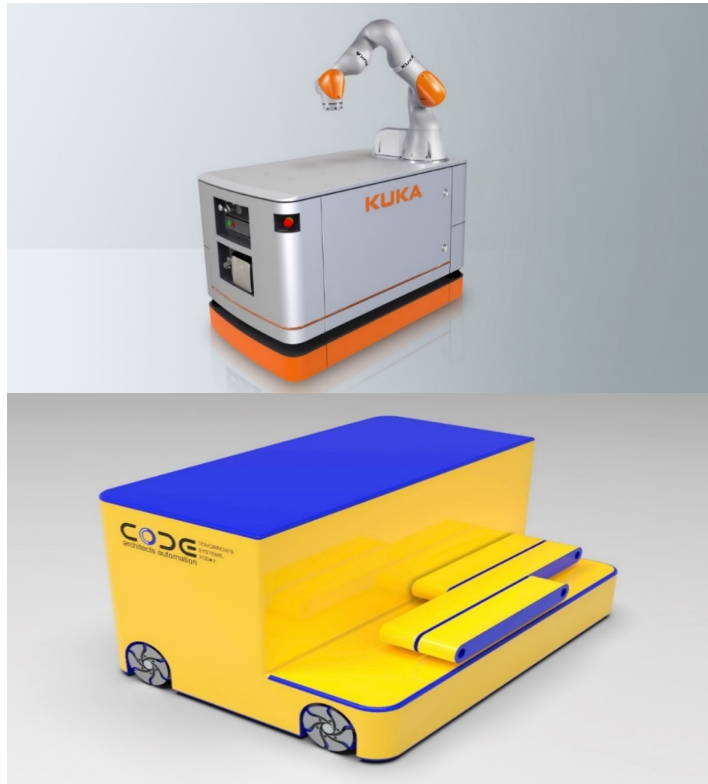
*Cabin and cargo components to be tested (© Fraunhofer IFAM).*

COURTESY OF C.N.R. STIIMA



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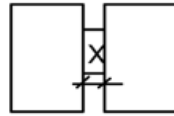
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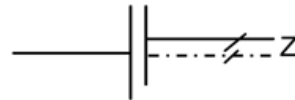
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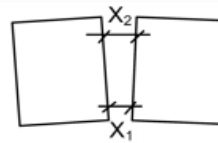
- GAP



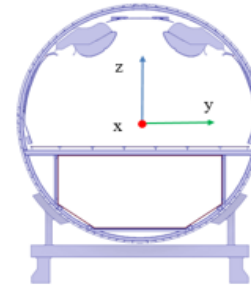
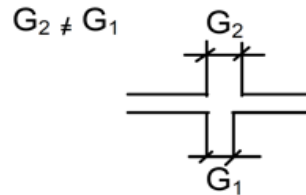
- STEP



- PARALLELISM



- MISMATCH OF TOLERANCES



3D reference system



Ceiling panel  
X gap

Hatrack Door – Griprail  
Mismatch of tol.

OHSC Door – OHSC Door  
Z step

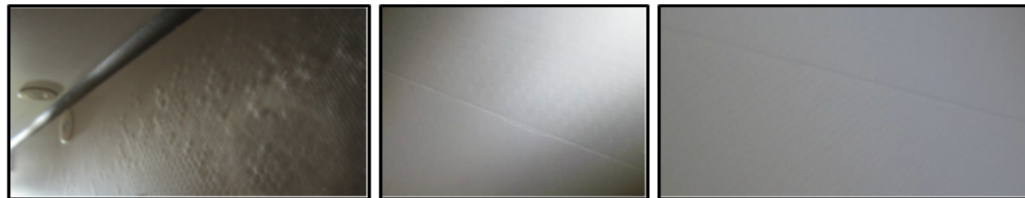
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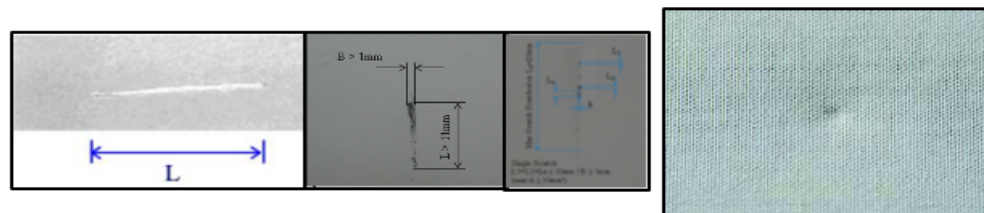
- Texture inhomogeneities detection



- Color deviation



- Scratches  
Dents/Bumps  
detection



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**IAAV** Associazione Nazionale Automazione Meccatronica

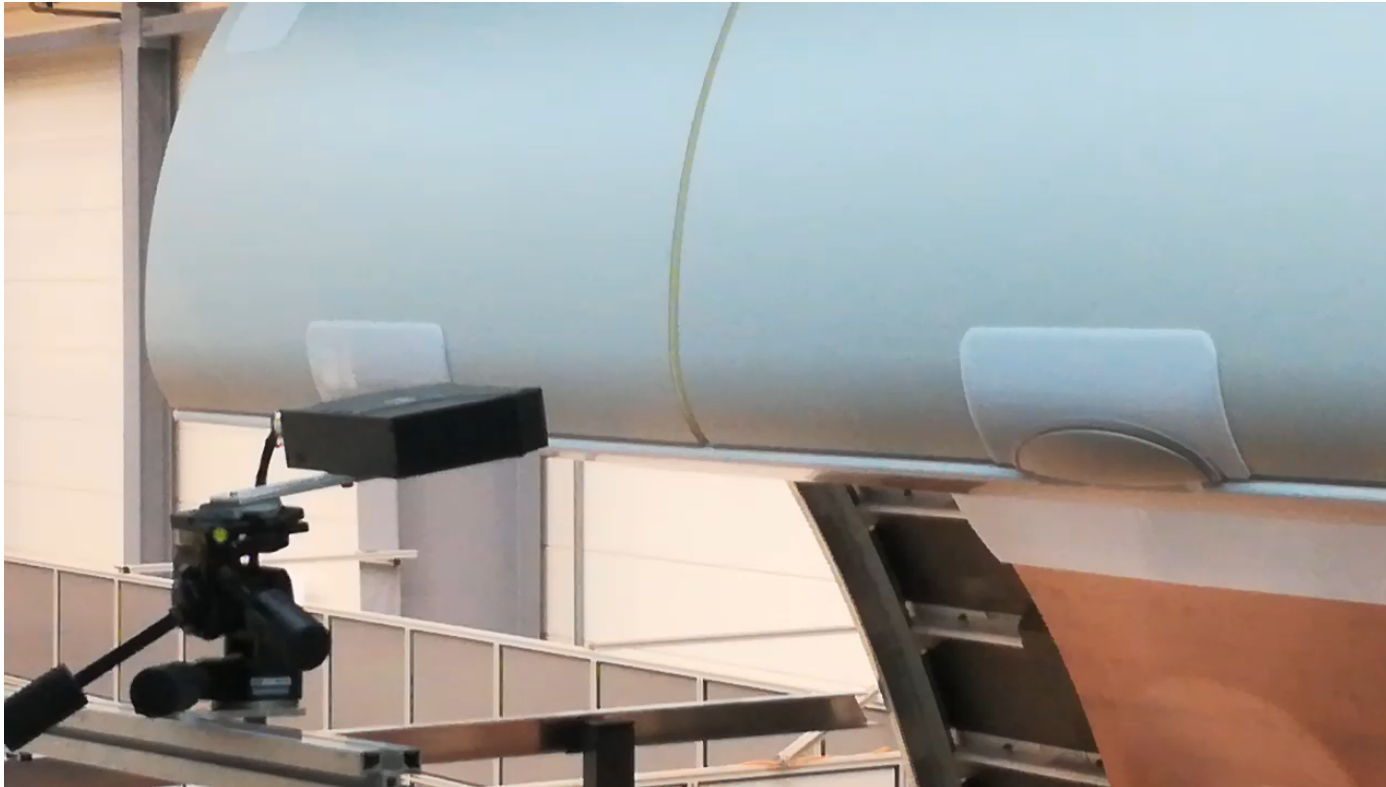
**aià** ADVANCING INTELLIGENT AUTOMATION MEMBER

**emva** european machine vision association

**IMAGE**

# | Collaborative Robotics – Airbus

**Acclaim** Automated Cabin and Cargo Assembly Processes for Passenger Aircraft



COURTESY OF C.N.R. STIIMA





# Vision Embedded – Paint Control



# THANK YOU!

